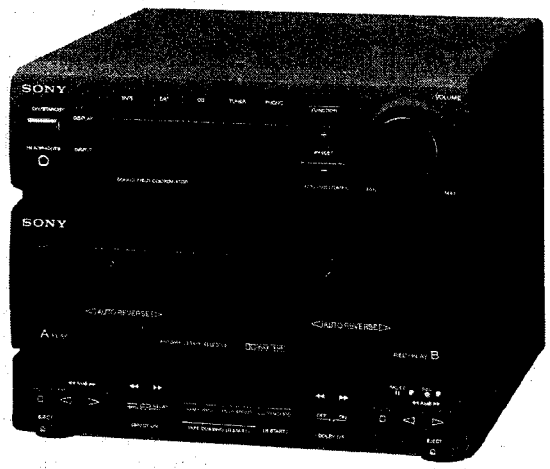
DXA-H2750

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model



This set is the Amplifier, cassette deck section in FH-E705C, MHC-2750.

Model Name Using Similar Mechanism		TC-H2700/H3700
Tape Transport Mechanism Type	DECK A	TCM-190RA13A
	DECK B	TCM-190RB22A

SPECIFICATIONS

Amplifier Section

Continuous RMS power output
US, CND model:
45 + 45 watts (6 ohms at 1 kHz, 5% THD)
E, EA, AUS, TR model:
40 + 40 watts (6 ohms at 1 kHz, 5% THD)
AEP, UK, G, IT model:
35 +35 watts (6 ohms at 1 kHz, DIN)

Music power output
AEP, UK, G, IT model:
60 + 60 watts (6 ohms at 1 kHz, 10% THD)

Peak music power output
E, EA, AUS, TR model:
400 watts

Inputs
DAT IN (phono jacks):
sensitivity 450 mV, impedance 47 kilohms
AEP, UK, G, IT model:
PHONO IN (phono jacks):
sensitivity 5 mV, impedance 47 kilohms
Except AEP, UK, G, IT model:
VIDEO IN (phono jacks):
sensitivity 450 mV, impedance 47 kilohms

Outputs
HEADPHONES (stereo minijack):
accepts headphones of 8 ohms or more
SPEAKERS:
accepts speakers of 6 to 16 ohms

Cassette Deck Section

Recording system 4-track 2-channel stereo
Frequency response (DOLBY NR OFF)
40 — 13,000 Hz (±3 dB), using TYPE I cassette (Sony HF-S)
40 — 14,000 Hz (±3 dB), using TYPE II cassette
40 — 15,000 Hz (±3 dB), using TYPE IV cassette
Wow and flutter 0.1% WRMS ±0.3% (DIN)

Design and specifications subject to change without notice.

MICROFILM

STEREO CASSETTE DECK AMPLIFIER

SONY®

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

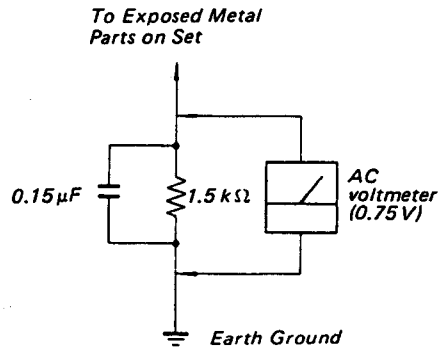
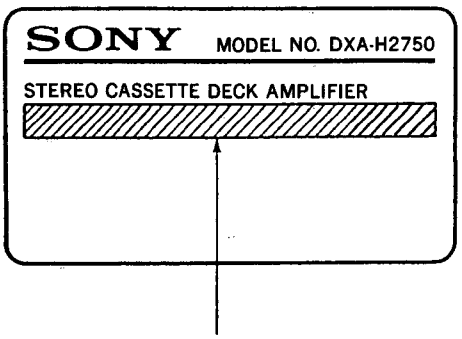


Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION

— Model Number Label —



US model: AC: 120V 60Hz 105W
CND model: AC: 120V 60Hz 115W
AEP model: AC: 220–230V~50/60Hz
UK model: AC: 240V~50Hz
E, EA, TR model: AC: 120/220/230–240V~50/60Hz 110W
G, IT model: AC: 220–230V~50Hz
AUS model: AC: 240V~50Hz 110W

- CND: Canadian model
- AUS: Australian model
- G: Germany model
- IT: Italian model
- EA: Saudi Arabia model
- TR: Tourist model

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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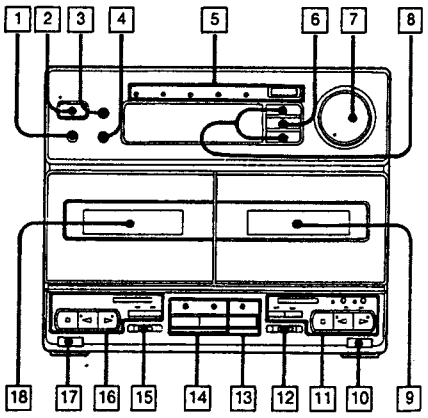
SECTION 1
GENERAL

This section is extracted from instruction manual.

1-1. PARTS IDENTIFICATIONS

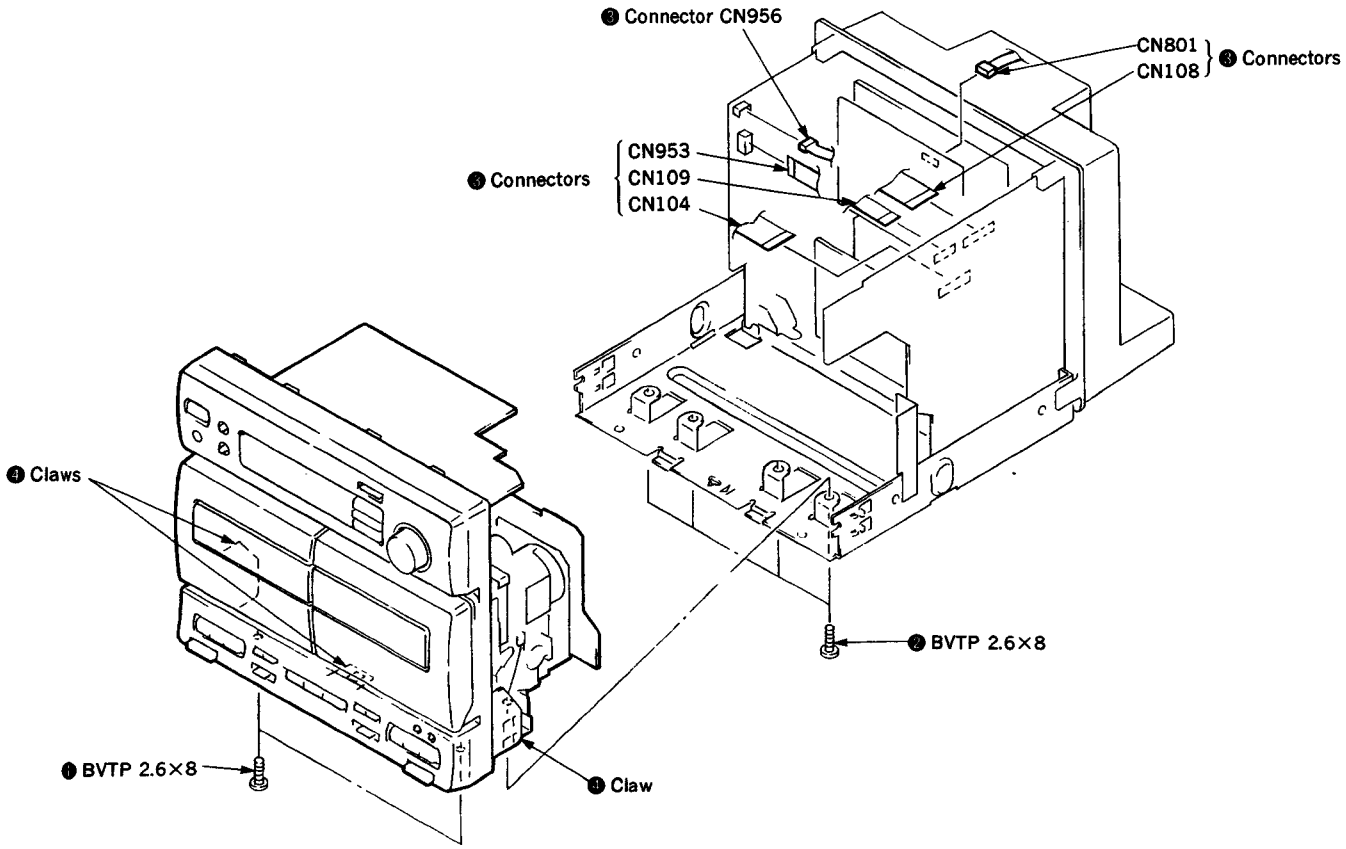
[1] HEADPHONES jack (stereo minijack)
[2] SYSTEM POWER switch and STANDBY indicator
The indicator remains lit as long as the AC power cord is connected to a wall outlet.
[3] DISPLAY button ⑯
[4] DIRECT button and indicator ⑯
[5] FUNCTION button and function indicators ⑳ ㉚
[6] PRESET button ⑯
[7] VOLUME control ㉖
[8] TOTAL EFFECT CONTROL –/+ buttons ㉘
[9] Cassette holder (Deck B)
[10] EJECT ⏏ button (Deck B)
[11] Tape operation buttons (for Deck B)
□: Stop button
▷: Forward play button and indicator
◁: Reverse play button and indicator
◀◀ ▶▶: Fast winding buttons
PAUSE ❚❚: button and indicator
REC ●: button and indicator
[12] DOLBY NR (Dolby Noise Reduction) switch ㊵
[13] CD SYNCHRO button ㊵ ㊻
[14] TAPE DUBBING buttons ㉞
NORMAL SPEED button
HIGH SPEED button
[15] DIRECTION mode selector ㊵ ㊹
[16] Tape operation buttons (for Deck A)
□: Stop button
▷: Forward play button and indicator
◁: Reverse play button and indicator
◀◀ ▶▶: Fast winding buttons
[17] EJECT ⏏ button (Deck A)
[18] Cassette holder (Deck A)



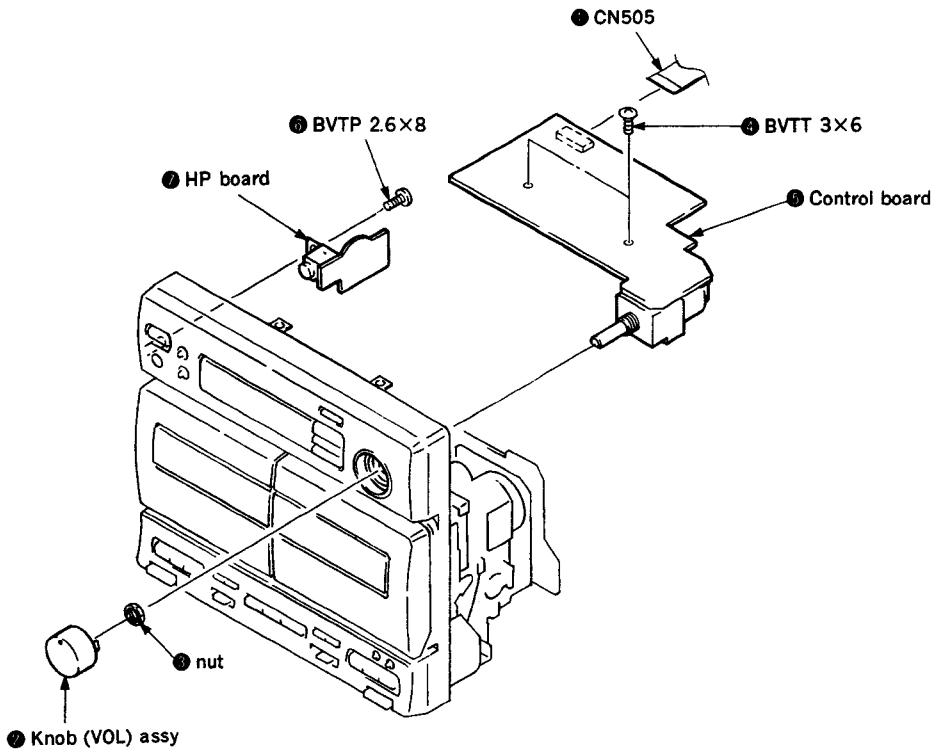
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

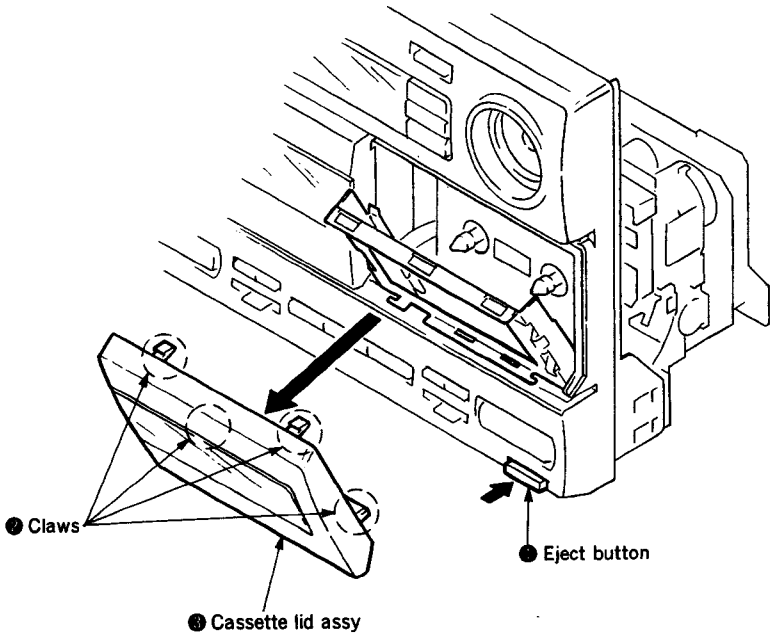
2-1. FRONT PANEL



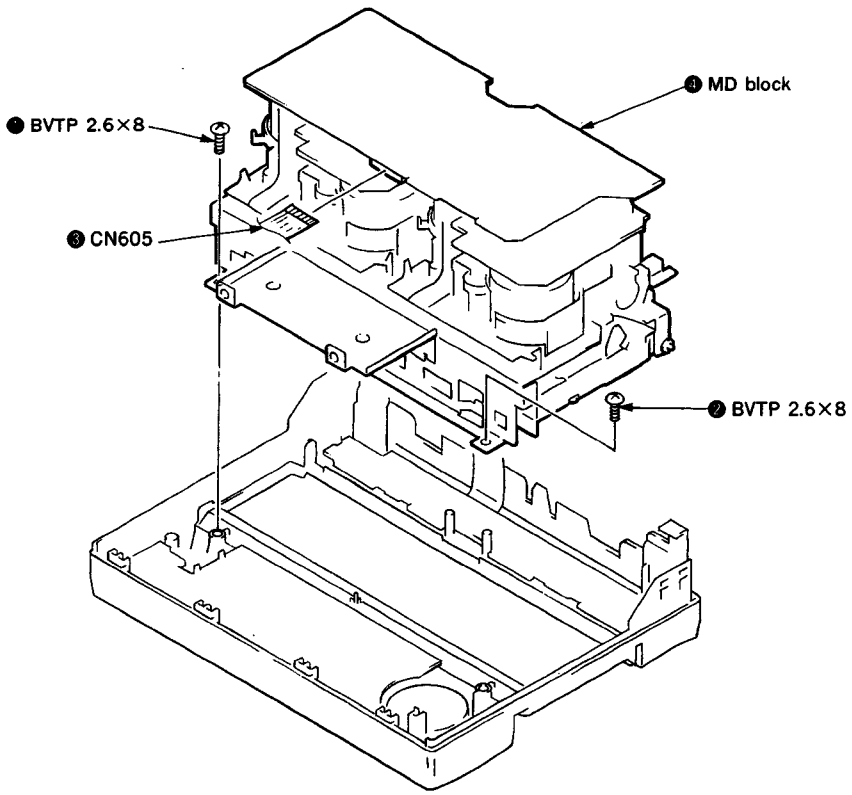
2-2. CONTROL BOARD, HP BOARD



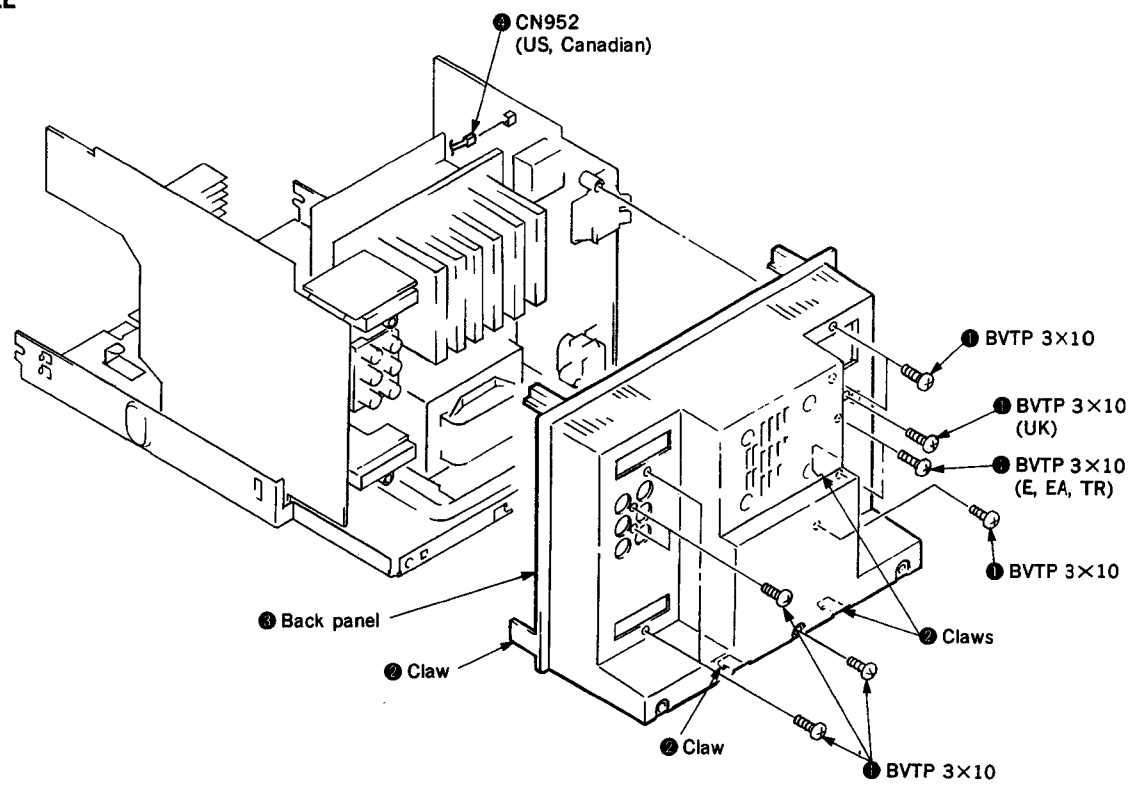
2-3. CASSETTE LID ASSY



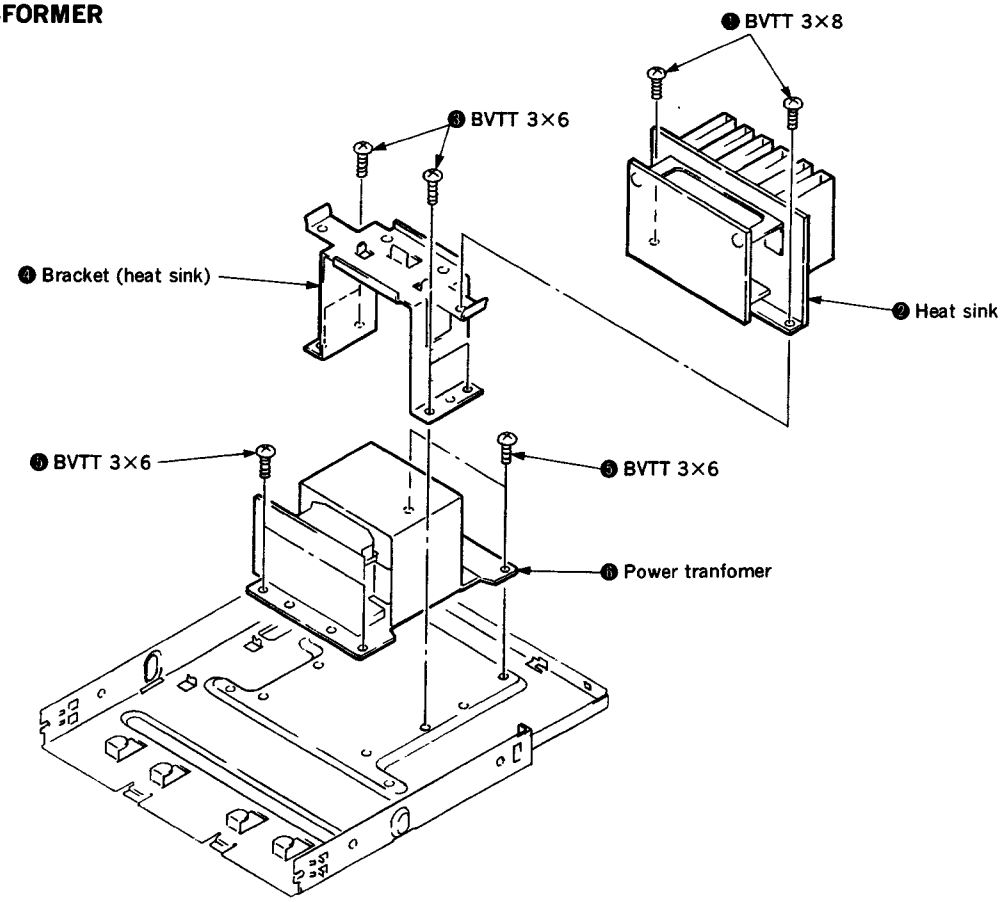
2-4. MD BLOCK



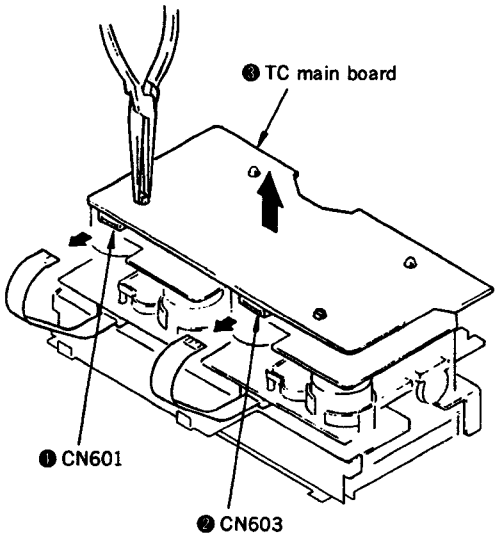
2-5. BACK PANEL



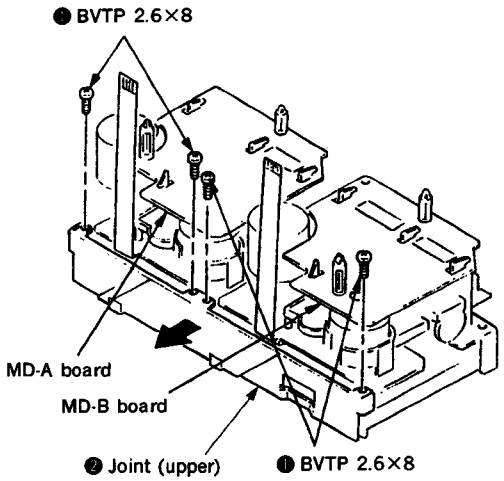
2-6. POWER TRANSFORMER



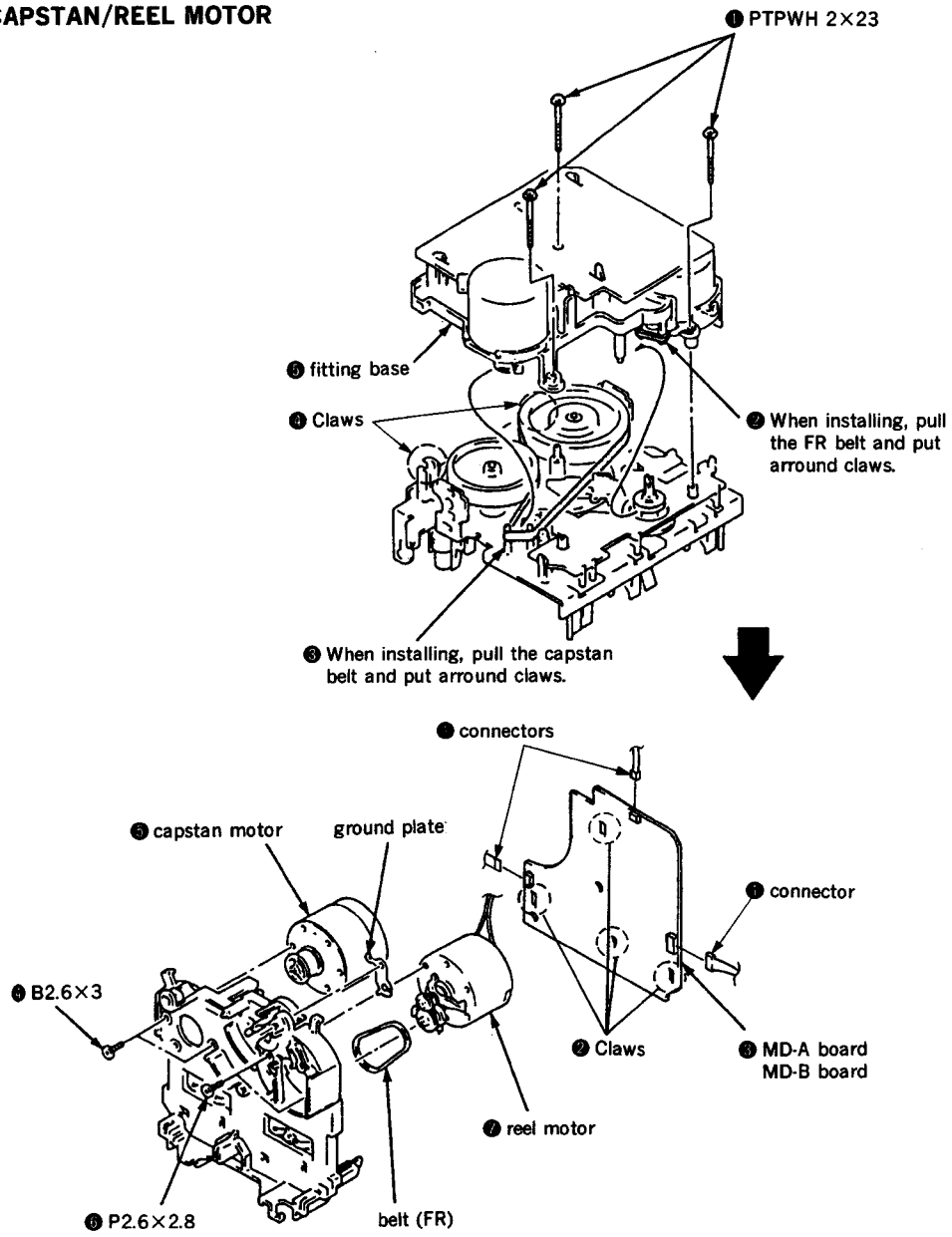
2-7. TC MAIN BOARD



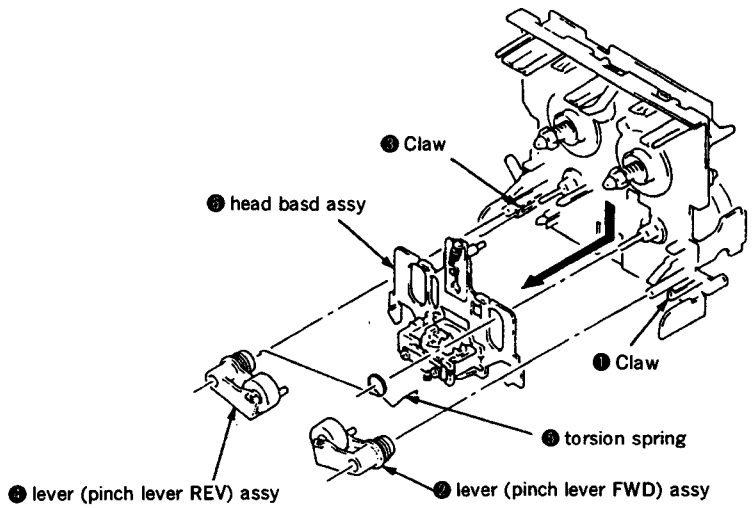
2-8. JOINT (UPPER)



2-9. CAPSTAN/REEL MOTOR



2-10. HEAD BASE ASSY



SECTION 3
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcoholmoistened swad:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

2. Demagnetize the record/playback head with a head demagnetizer.
   (Head demagnetizer do not approach for the erase head.)
3. Do not use a magnetized screwdriver for the adjustment.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be perfomed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	30 to 65g • cm (0.42 to 0.90 oz • inch)
Forward back tension	CQ-102C	1 to 6g • cm (0.014 to 0.08oz • inch)
Reverse	CQ-102RC	30 to 65g • cm (0.42 to 0.90oz • inch)
Reverse back tension	CQ-102RC	1 to 6g • cm (0.014 to 0.08oz • inch)
Forward, Reverse	CQ-201B	70 to 120g • cm (0.98 to 1.67 oz • inch)

SECTION 4
ELECTRICAL ADJUSTMENTS

PRECAUTION

1. The adjustment should be performed in the publication. (Be sure to make playback adjustment at first.)
2. The adjustment and measurement should be performed for both L-CH and R-CH.
   • Switch position
   DOLBY NR switch: OFF
3. Perior to electrical adjustments, short the connector TP401 (test mode).

Test Tape

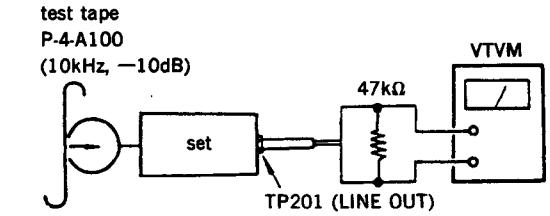
Tape	Contents	Use
P-4-A100	10kHz, −10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

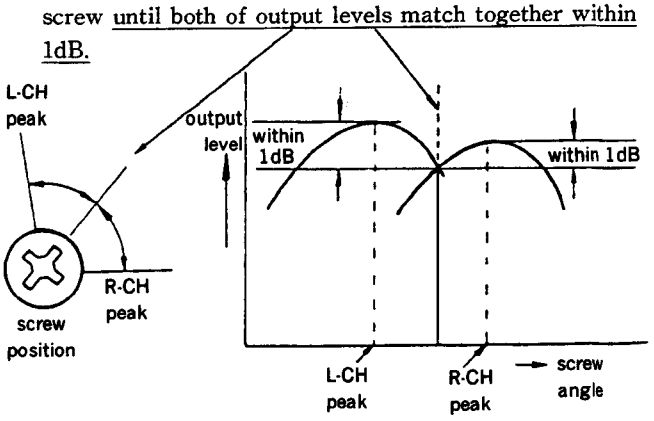
DECK A DECK B

Procedure:

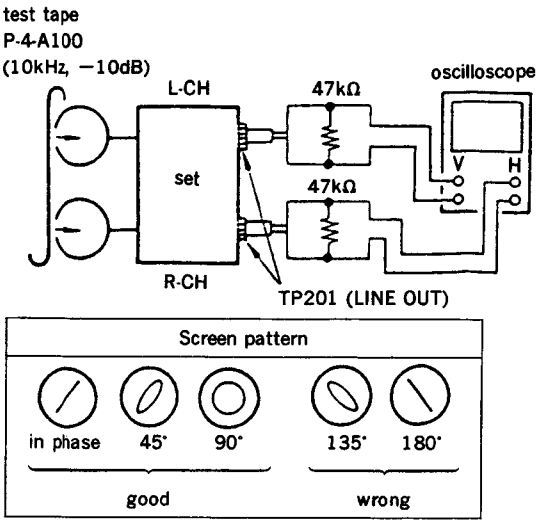
1. Forward Playback Mode



2. Turn the adjustment screw for the maximum output levels. If these levels do notmatch, turn the adjustment screw until both of output levels match together within 1dB.

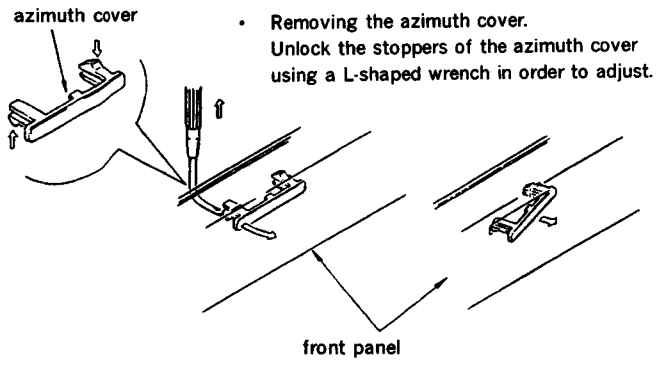


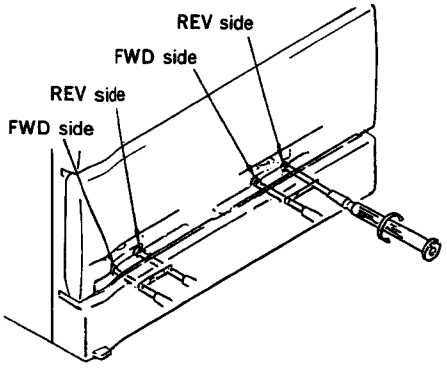
3. Playback Mode



4. Change the reverse playback mode and repeat the steps 1 to 3.
5. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location : —record/playback head—

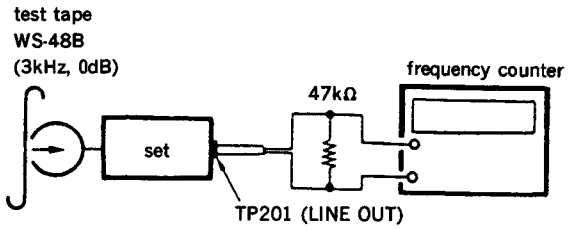

azimuth cover
• Removing the azimuth cover.
Unlock the stoppers of the azimuth cover
using a L-shaped wrench in order to adjust.
front panel



Tape Speed Adjustment DECK A DECK B

Procedure :

—Forward Playback Mode—



Perform high speed adjustment before normal speed adjustment.

(High speed adjustment)

1. Turn on the power and put the deck A into the FWD mode.
2. Press the HIGH SPEED switch.
3. Adjust RV72A (H) of the deck A so that a reading on the frequency counter meets the adjustment value.
4. Adjust the RV72B (H) of deck B performing steps 1 to 3 as deck A.

(Normal speed adjustment)

1. Put the set into the FWD playback mode.
2. Press the NORMAL SPEED switch.
3. At this time, adjust RV71A (L) of the deck A and RV71B (L) of the deck B so that a reading on the frequency counter meets the adjustment value.

Adjustment Limits :

Speed	Frequency Counter Reading
High	6,000 ± 20Hz
Normal	3,000 ± 10Hz

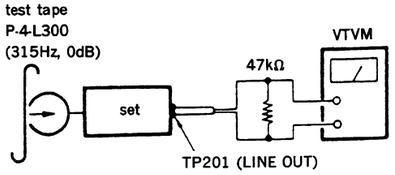
Frequency difference between the beginning and the end of the tape should be within 3%.
Frequency difference between deck A and deck B the beginning of the tape should be within 1.5%.

Adjustment Location : MD-A Board, MD-B Board

Playback Level Adjustment DECK A DECK B

Procedure :

—Forward Playback Mode—



Adjust deck A : RV11A (L-CH), RV21A (R-CH) and deck B : RV11B (L-CH), RV21B (R-CH) so that the VTVM reading becomes the adjustment limits below.

Adjustment Limits :

LINE OUT level : −7.7 ± 0.5dB 0.301 to 0.338V

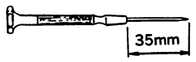
Level Difference between Channels : within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

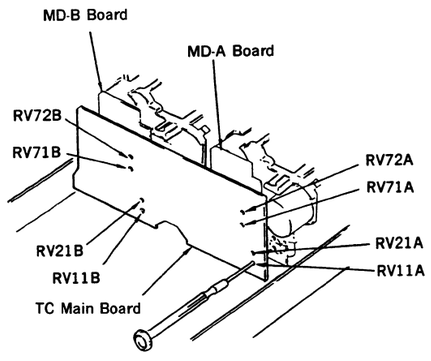
Adjustment Location : MD-A Board, MD-B Board

Tape Speed/playback Level Adjustment

Screwdriver to adjust the MD block



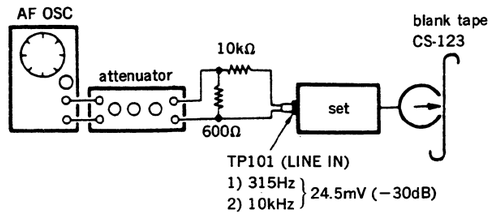
The MD block adjustment can be performed by inserting a screwdriver of which axis length (not including the shaft) is 35 mm or more through the rear side of the main board.



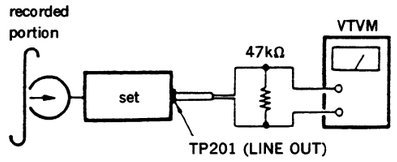
Record Bias Adjustment DECK B

Procedure :

1. Record Mode



2. Playback Mode



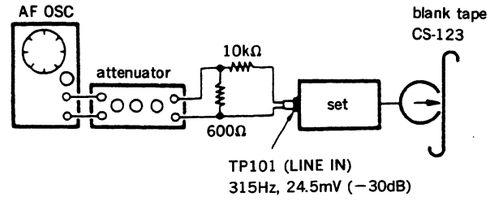
Playback the signal recorded in step 1.
Confirm that the 10kHz playback output is 0 ± 0.5dB (0.732 to 0.821V) relative to the 315Hz output. if necessary. Adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

Adjustment Location : MD-B Board

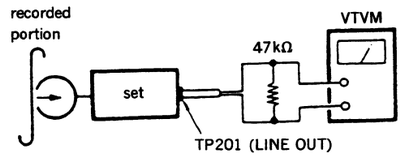
Record Level Adjustment DECK B

Procedure :

1. Record Mode



2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.
If necessary, adjust RV201 (L-CH), RV301 (R-CH) and repeat steps 1 and 2.

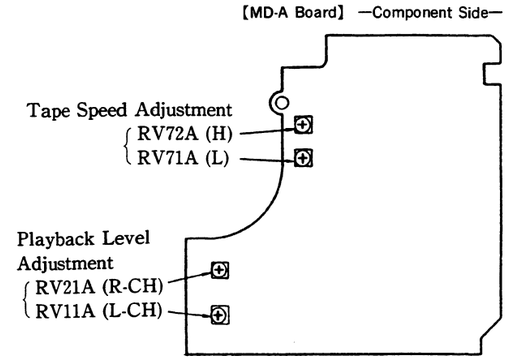
Adjustment Limits :

LINE OUT level : −26 ± 0.5dB (37 to 41mV)

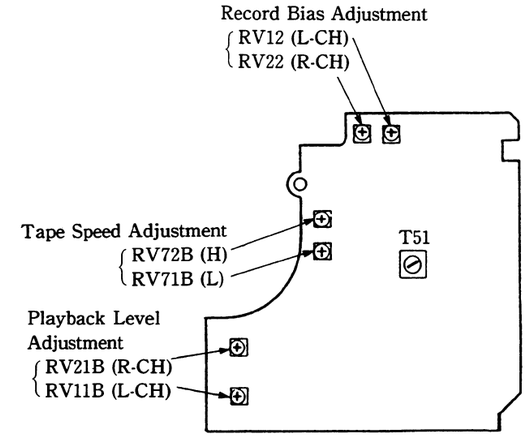
Adjustment Location : main board

Adjustment Location :

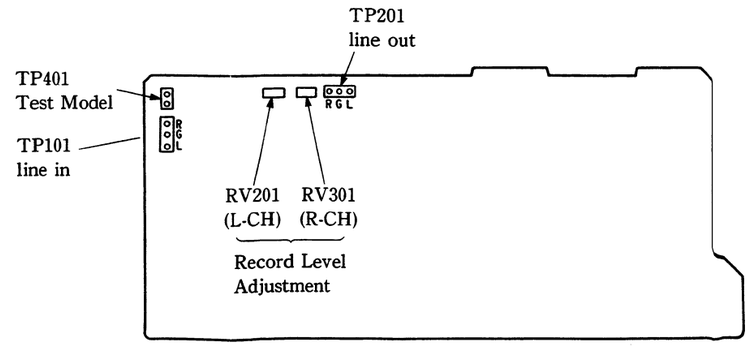
【MD-A Board】 —Component Side—



【MD-B Board】 —Component Side—



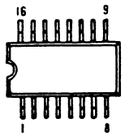
【TC Main Board】 —Component Side—



SECTION 5
DIAGRAMS

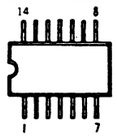
5-1. SEMICONDUCTOR LEAD LAYOUTS

CD4052BCM
CD4053BCM
CXA1101M
CXA1578M



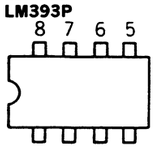
(TOP VIEW)

CD4066BCM
SN74HC32ANS



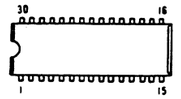
(TOP VIEW)

LB1639
LM393P



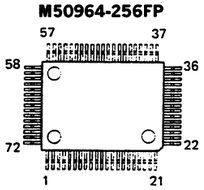
(Top view)

LC7822

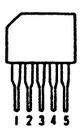


(Top view)

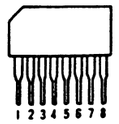
M50964-256FP



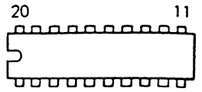
M51953AL



M5218AL
M5230L-A
μPC1237HA

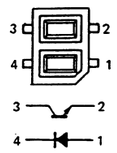


M5229P

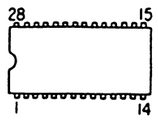


(Top view)

NJL5165K-B

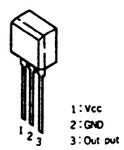


NJU7305L

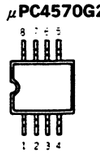


(Top view)

PST572E

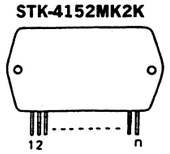


RC4558PS
μPC4570G2

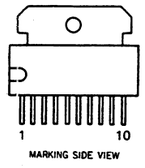


(TOP VIEW)

STK-4152MK2K

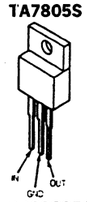


TA7272P



MARKING SIDE VIEW

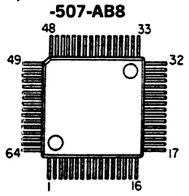
TA7805S



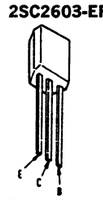
TD62C950RF

(TOPVIEW)

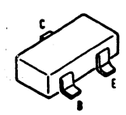
μPD78011GC
-507-AB8



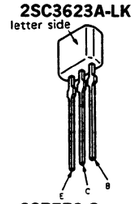
DTA114ES
DTC114ES
2SC2603-EF



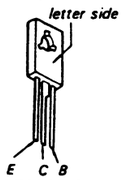
RN1402
RN2402
RN2404
2SA1602-F
2SC4154-F



2SA1175-HFE
2SC3623A-LK

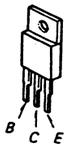


2SB772-Q
2SD882-P

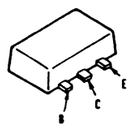


2SB1013-4
2SC1841-PAFAEA
2SD1616A-K

2SB1094-LK
2SD2012

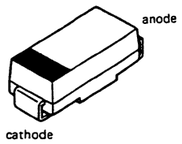


2SB1122-S
2SD1622-S

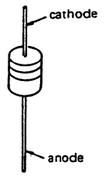


2SK246-GR

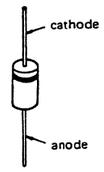
EC10DS2



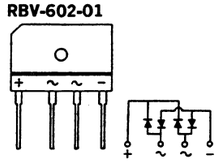
HZS27-2L
HZS30-2L
HZS6C3L
HZS9A2L
UZL-36M
11ES2



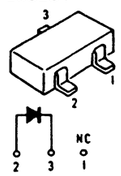
HZ12B2L
UZP-6.2BC
1N4148M



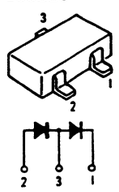
RBV-602-01



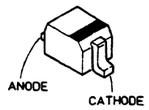
UZM5.6X
UZM8.2Z
1SS184



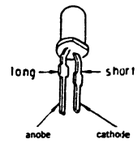
1SS226



1SS352

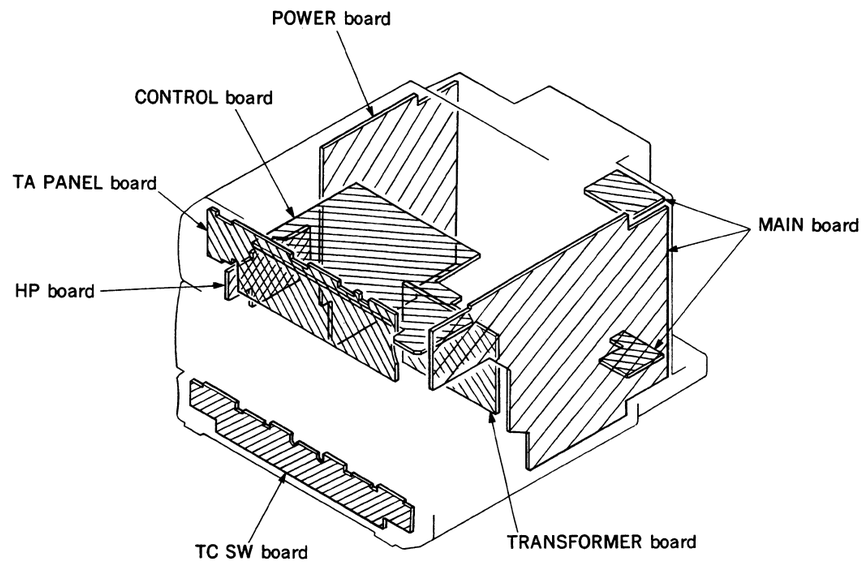


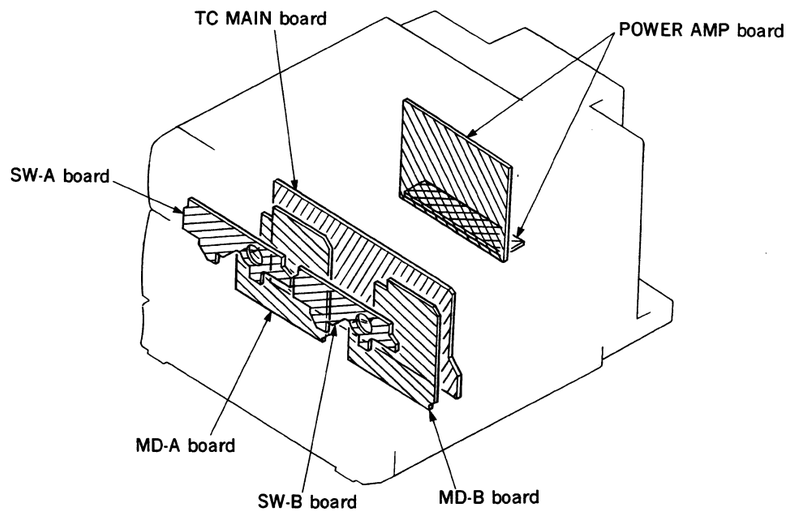
SEL2210S-CD



SEL4225C-C
SEL4525C-C
SEL4925A-D

5-2. CIRCUIT BOARDS LOCATION





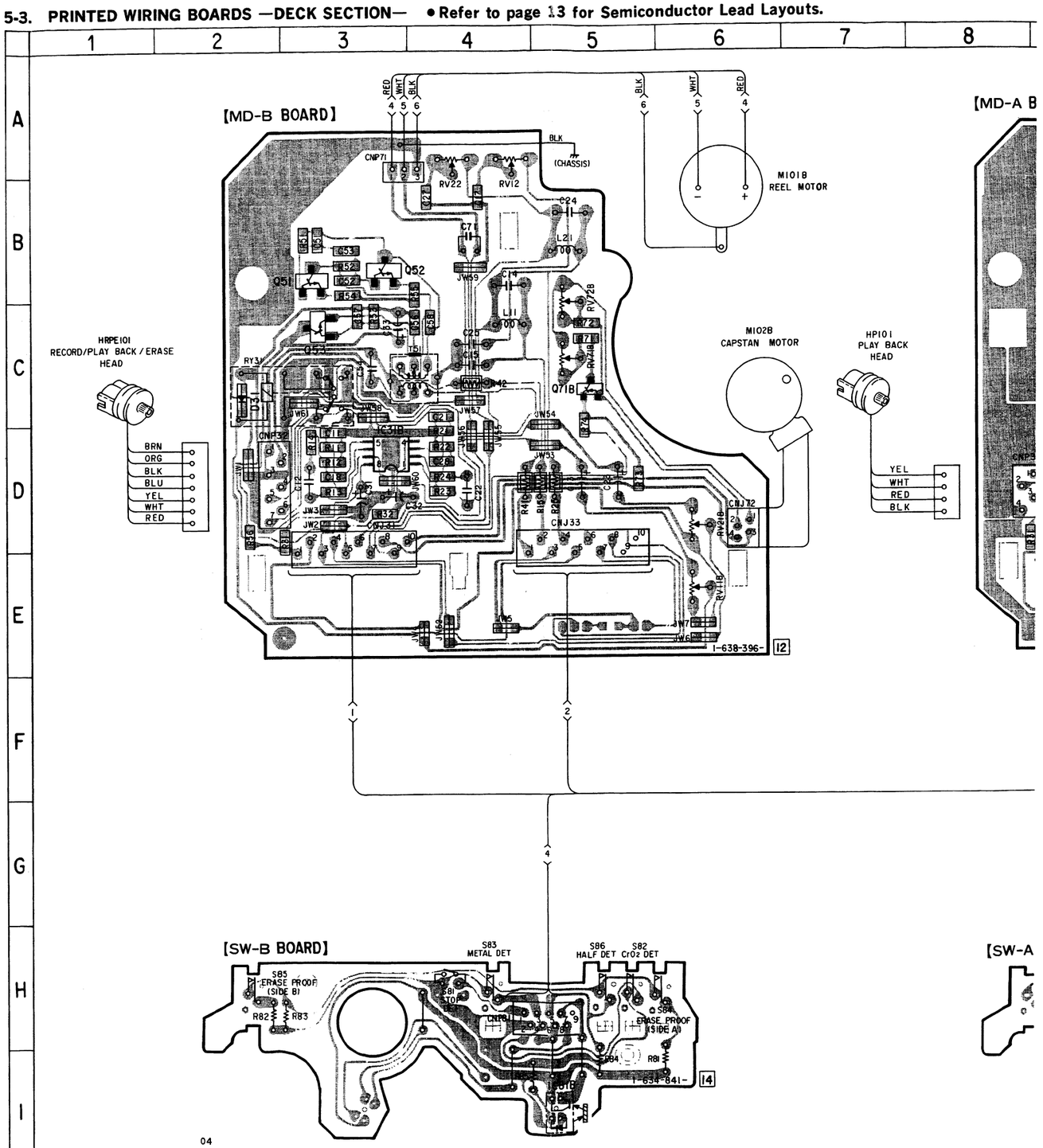
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D31	C-2	IC401	C-18
D351	H-21	IC402	D-14
D352	H-20	IC403	D-15
D353	H-17	IC404	C-17
D354	H-18	IC405	C-19
D355	H-17	IC406	D-18
D356	H-14		
D357	H-14	Q51	B-3
D358	H-14	Q52	B-3
D359	H-14	Q53	C-3
D401	D-15	Q71A	C-11
D404	D-17	Q71B	C-5
D405	D-18	Q201	D-20
D407	C-15	Q202	D-19
D410	D-18	Q301	E-19
D411	B-17	Q302	C-19
D412	C-17	Q401	C-16
D416	D-18	Q402	C-16
D4001	D-19	Q403	B-15
		Q404	B-15
IC31A	D-9	Q405	B-16
IC31B	D-3	Q407	D-17
IC81A	I-11	Q408	D-19
IC81B	I-5	Q409	C-19
IC201	E-18	Q410	C-20
IC202	E-20	Q411	B-15
IC203	C-21	Q412	D-19
IC204	C-19	Q414	D-18
IC205	D-16	Q415	D-19

Note:

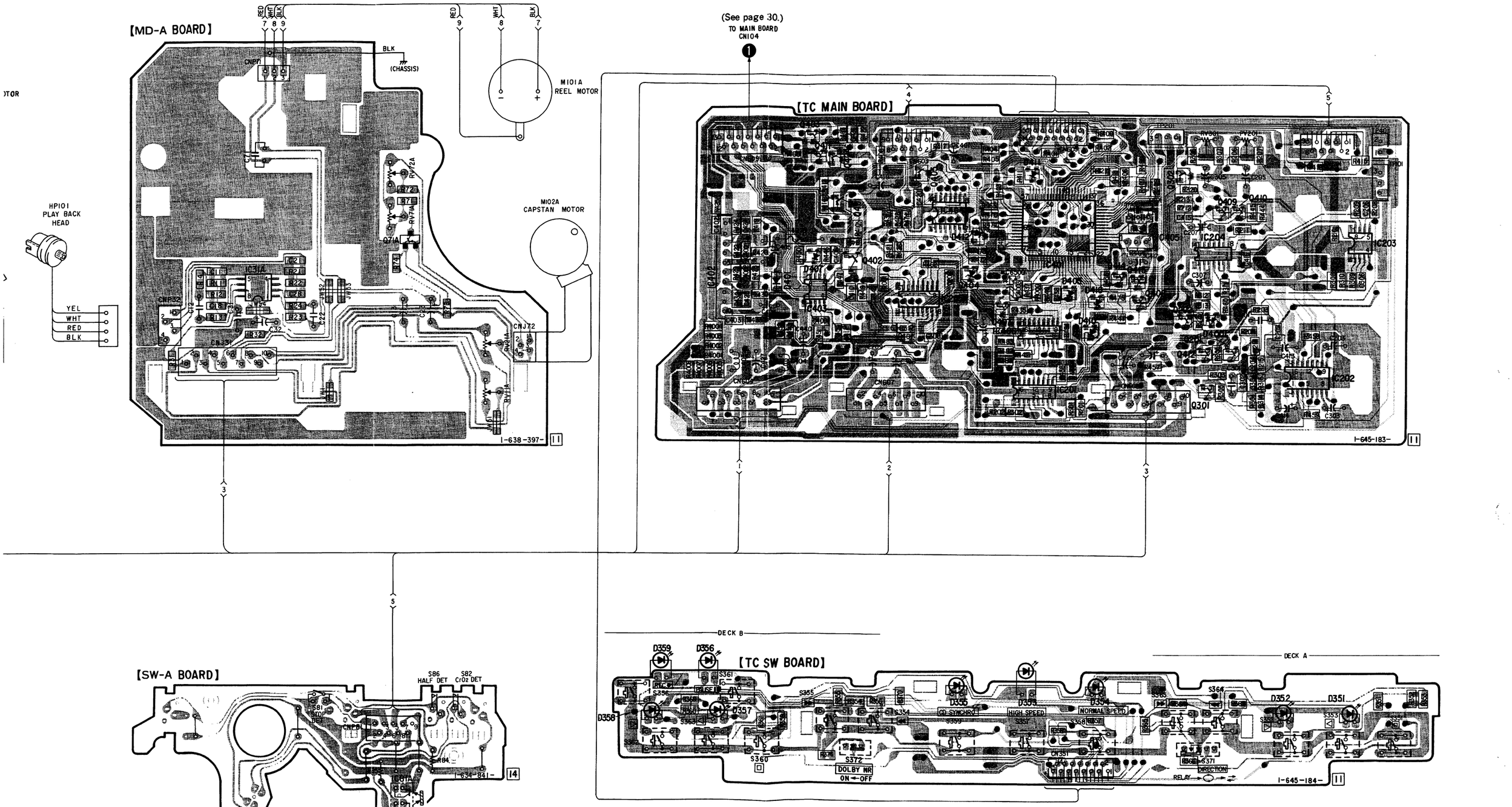
- ○—— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒ : Pattern on the side which is seen.
- ○ ▒ : Pattern of the rear side.

5-3. PRINTED WIRING BOARDS —DECK SECTION— • Refer to page 13 for Semiconductor Lead Layouts.

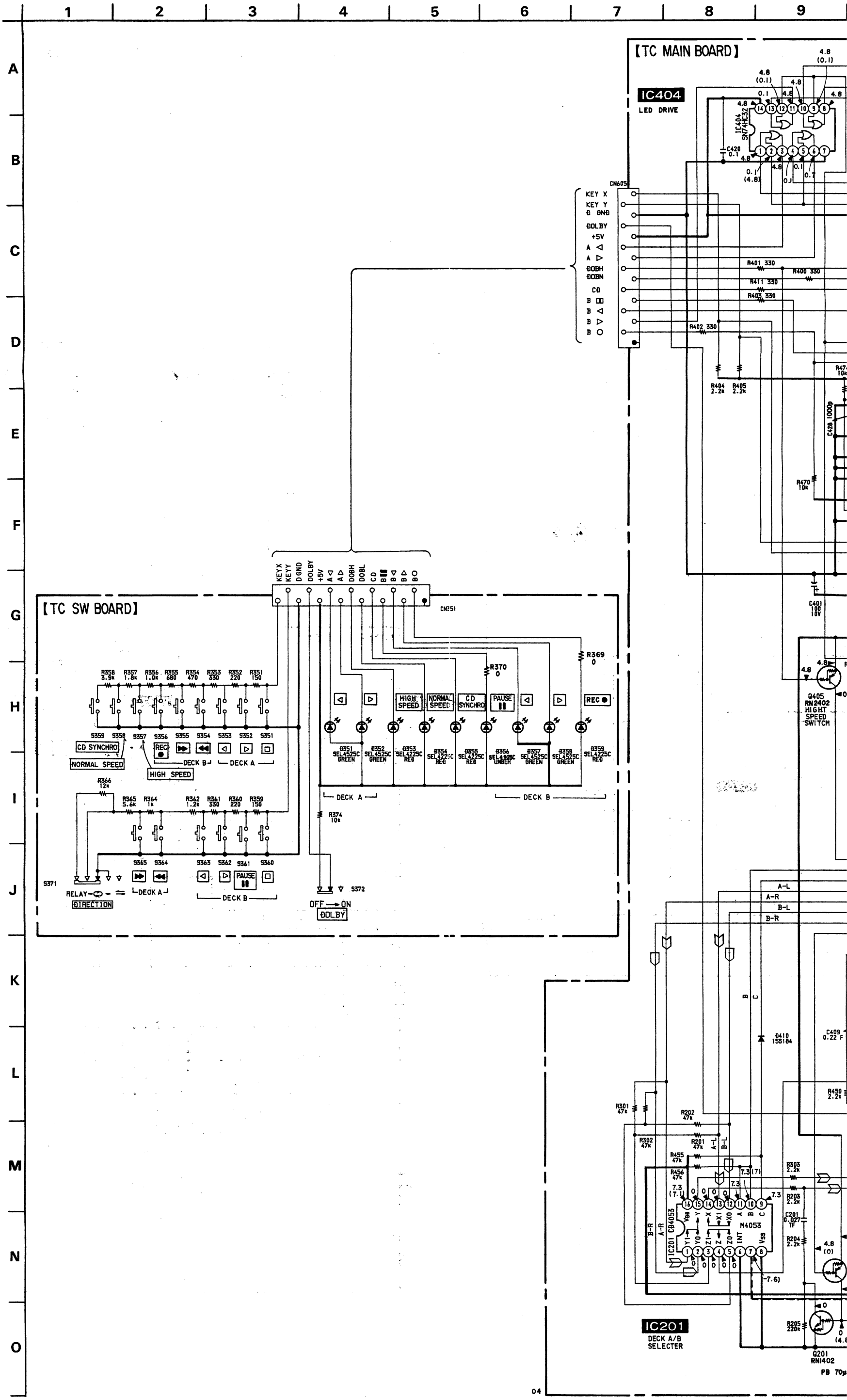


ts.

7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22



5-4. SCHEMATIC DIAGRAM —DECK SECTION— • Refer to page 40 for IC Block Diagrams.



IC401
IC401
M50964-90X1044
SYSTEM CONTROL

IC402
REEL MOTOR
DRIVE

IC403
AMS AMP

IC405
RESET

IC406
TAPE TYPE SELECT
SWITCH

IC205
REC AMP

IC203
PB AMP

IC204
SELECT
SWITCH

IC202
DOLBY NR AMP

Q403
CAPSTAN MOTOR
H/L SWITCH

Q401,402
CAPSTAN MOTOR
SWITCH

Q404,411
CAPSTAN MOTOR
DRIVE

Q405
RN2402
HIGHT
SPEED
SWITCH

Q407
RELAY DRIVE

Q409,410
SWITCHING

Q412
PB 70μS
DRIVER

PB 70μS SWITCH

— LINE MUTE —

CN601
SHUT
+5V
HALF
70EQ
METAL
GND
STOPSW

CN602
+7.5V
PB L
GND
PB R
-7.5V
REEL+
REEL-
+5V(MOTOR)
H/L
-7V(MOTOR)

CN603
SHUT
+5V
HALF
70EQ
METAL
GND
STOPSW

CN604
+7.5V
PB L
GND
PB R
-7.5V
REEL +
REEL-
+5V(MOTOR)
H/L
-7V(MOTOR)

CN607
BIAS
REC L
GND
REC R
RELAY

CN609
A GND
PB L
7.5V
PB R
-7.5V
REC L
GND
REC R
MOTOR 5V
MOTOR GND
POWER ON/OFF
AUB US
MOTOR -7.5V

1 TO MAIN BOA CN104 (See page

TP101 TP201 TEST POINT

A-L
A-R
B-L
B-R

Q401, 402
CAPSTAN MOTOR
SWITCH

Q404,411
CAPSTAN MOTOR
DRIVE

CN601
SHUT
+5V
HALF
7OEQ
METAL
GND
STOPSW

CN602
+7.5V
PB L
GND
PB R
-7.5V
REEL+
REEL-
+5V(MOTOR)
H/L
-7V(MOTOR)

CN603
SHUT
+5V
HALF
7OEQ
METAL
GND
STOPSW

CN604
+7.5V
PB L
GND
PB R
-7.5V
REEL +
REEL-
+5V(MOTOR)
H/L
-7V(MOTOR)

CN607
BIAS
REC L
GND
REC R
RELAY

CN609
A GND
PB L
7.5V
PB R
-7.5V
REC L
Ð GND
REC R
MOTOR 5V
MOTOR GND
POWER ON/OFF
AUB US
MOTOR -7.5V

❶ TO MAIN BOARD CN104 (See page 24.)

TP201 L GND R TEST POINT

Q202 2SC4154 — LINE MUTE — Q302 2SC4154

【MD-A BOARD】

M101A REEL MOTOR
M102A CAPSTAN MOTOR
CNP71
CNJ72
CNJ31
HIGH SPEED
NORMAL SPEED
Q71A 2SA1602 NORMAL/HIGH SPEED SWITCH
5.2 HIGH:5
5.2 HIGH: 2.1
4.6 HIGH:5.3

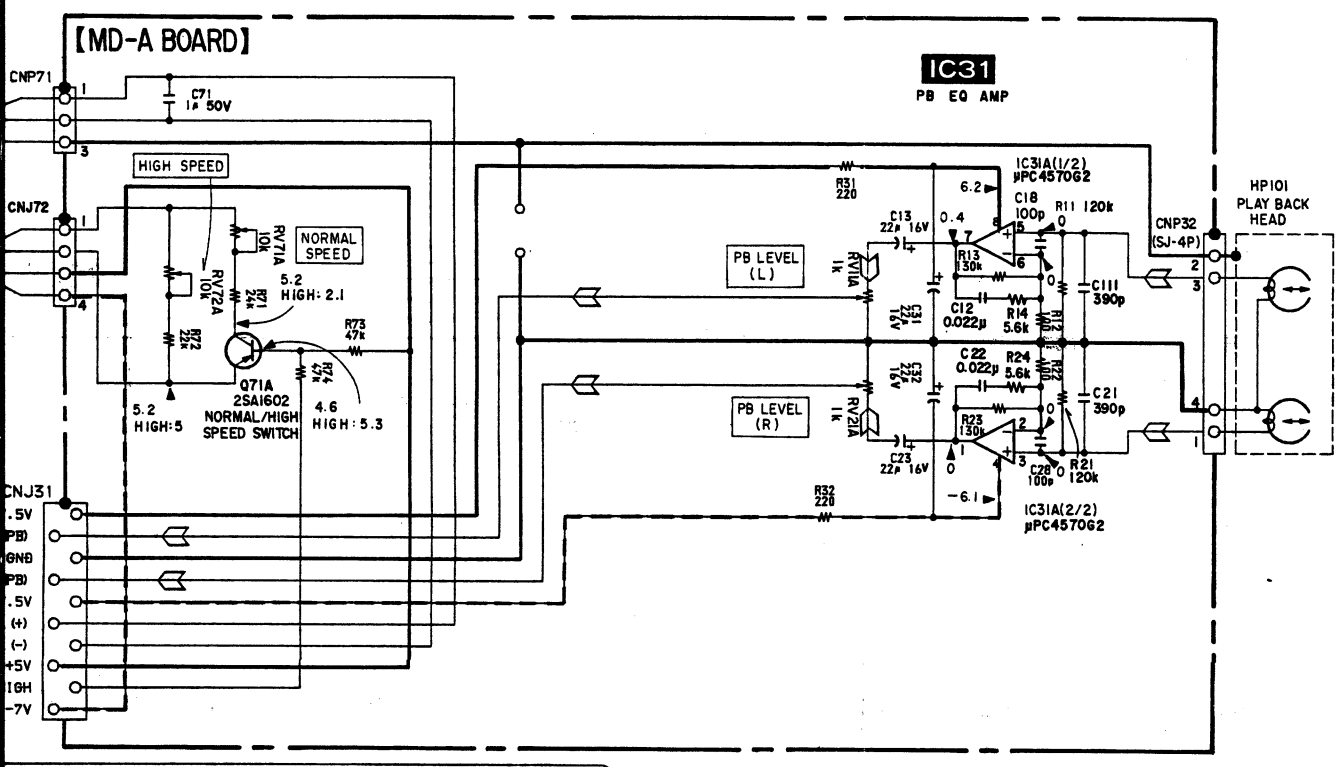
IC31 PB EQ AMP
IC31A(1/2) μPC4570G2
IC31A(2/2) μPC4570G2
PB LEVEL (L)
PB LEVEL (R)

【SW-B BOARD】
CNP81
S81 STOP DET
S83 METAL DET
S82 CrO2 DET
S84 ERASE PROOF (SIDE A)
S85 ERASE PROOF (SIDE B)
S86 HALF DET
IC81 ROTATION DET
IC81B NJL5165K-B

【SW-A BOARD】
CNP81
S81 STOP DET
S82 CrO2 DET
S86 HALF DET
IC81 ROTATION DET
IC81A NJL5165K-B

【MD-B BOARD】
M101B REEL MOTOR
M102B CAPSTAN MOTOR
CNP71
CNJ72
CNJ31
CNJ33
HIGH SPEED
NORMAL SPEED
Q71B 2SA1602 NORMAL/HIGH SPEED SWITCH
5.2 HIGH:5
5.2 HIGH: 2.1
4.6 HIGH:5.3

IC31 PB EQ AMP
IC31B(1/2) μPC4570G2
IC31B(2/2) μPC4570G2
PB LEVEL (L)
PB LEVEL (R)
Q53 BIAS REG
Q51,52 BIAS OSC
T51 BIAS OSC
REC BIAS
RY31 G31 ISS352



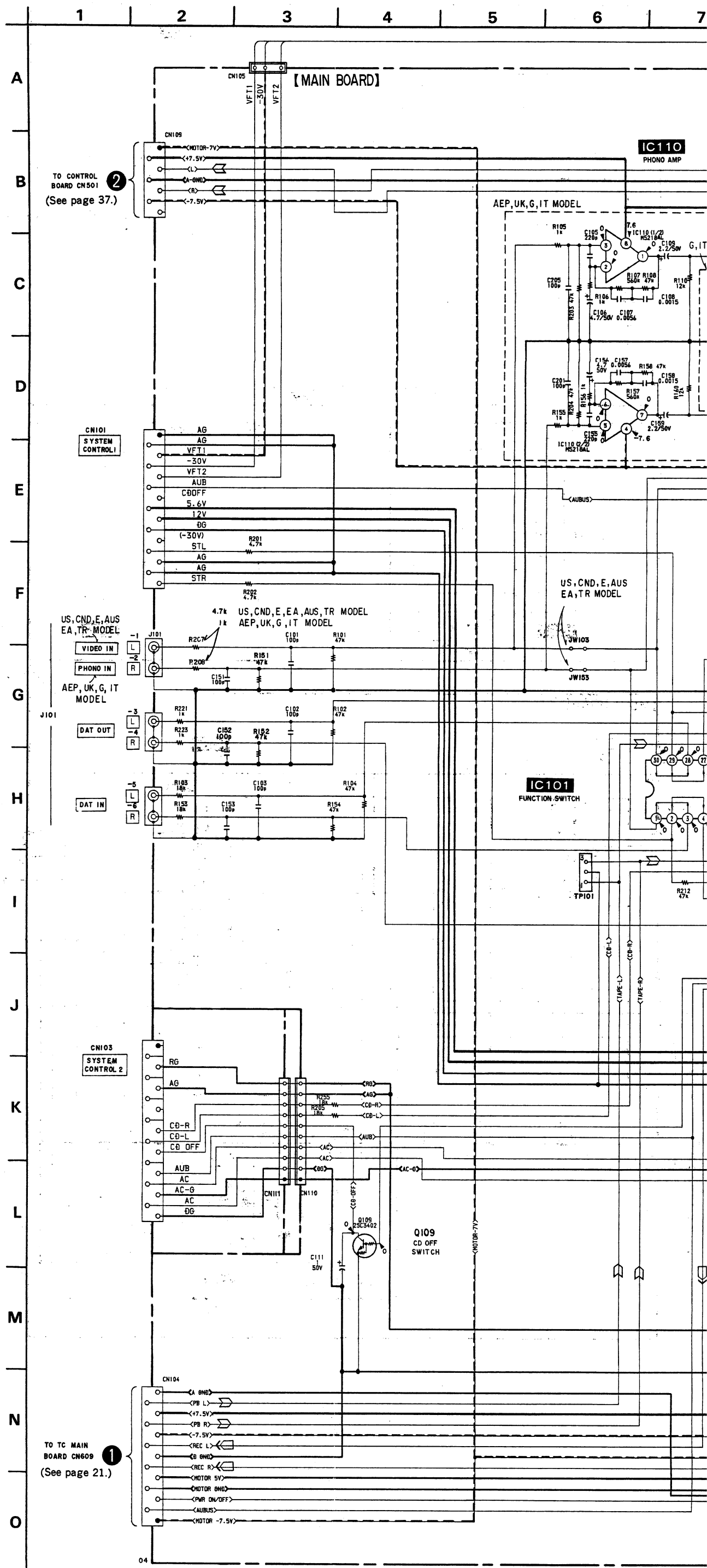
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line
- : B– Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : PLAY
  ( ) : REC
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : PB (DECK A)
  : PB (DECK B)
  : REC (DECK B)

5-5. SCHEMATIC DIAGRAM —MAIN SECTION— • Refer to page 40 for IC Block Diagrams



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- : B+ Line
- : B— Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark: PLAY
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : PB (DECK A)
  : REC (DECK B)

- CND: Canadian model
- G: Germany model
- IT: Italian model
- AUS: Australian model
- EA: Saudi Arabia model
- TR: Tourist model

er to page 40 for IC Block Diagrams

5 6 7 8 9 10 11 12 13 14 15

IC110
PHONO AMP

AEP,UK,G,IT MODEL

G,IT MODEL

US,CND,E,AUS
EA,TR MODEL

JW103

JW153

IC101
FUNCTION SWITCH

LC7822

TP101

IC104
GEQ AMP

IC105
GEQ
VOLUME

IC106
GEQ AMP

Q107,108
SURROUND
SWITCH

Q109
CD OFF
SWITCH

Q907
-7.5V REG

Q902
POWER SWITCH

Q901
REG

IC901
REG

Q904
+7.5V REG

Q903
POWER
SWITCH

IC902
5.6V REG

220/50V US,CND MODEL
330/50V EXCEPT US,
CND MODEL

F902 3.15A

F901
3.15A 125V

F902 3.15A 125V

F901 3.15A

US,CND
MODEL

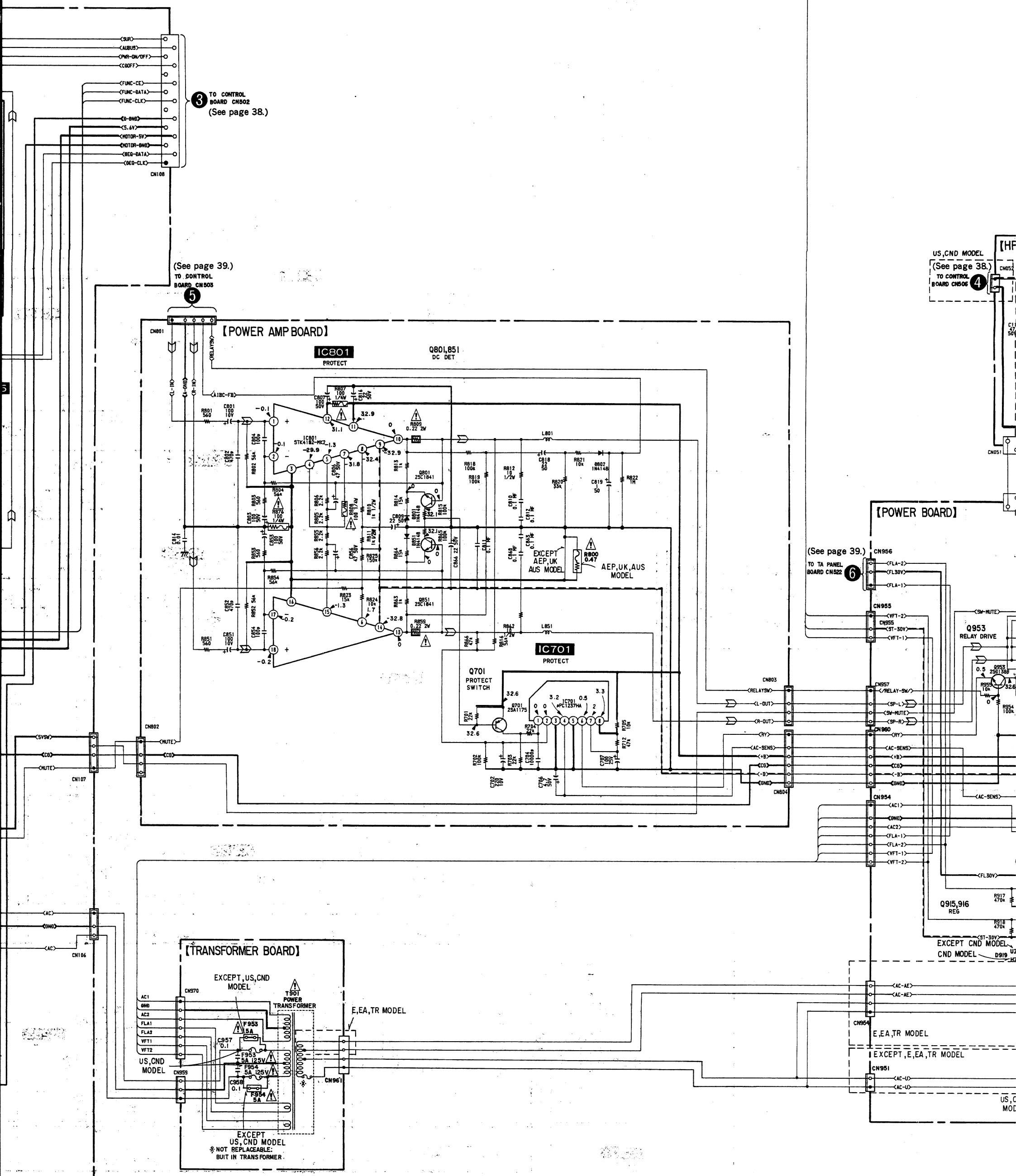
EXCEPT
US,CND
MODEL

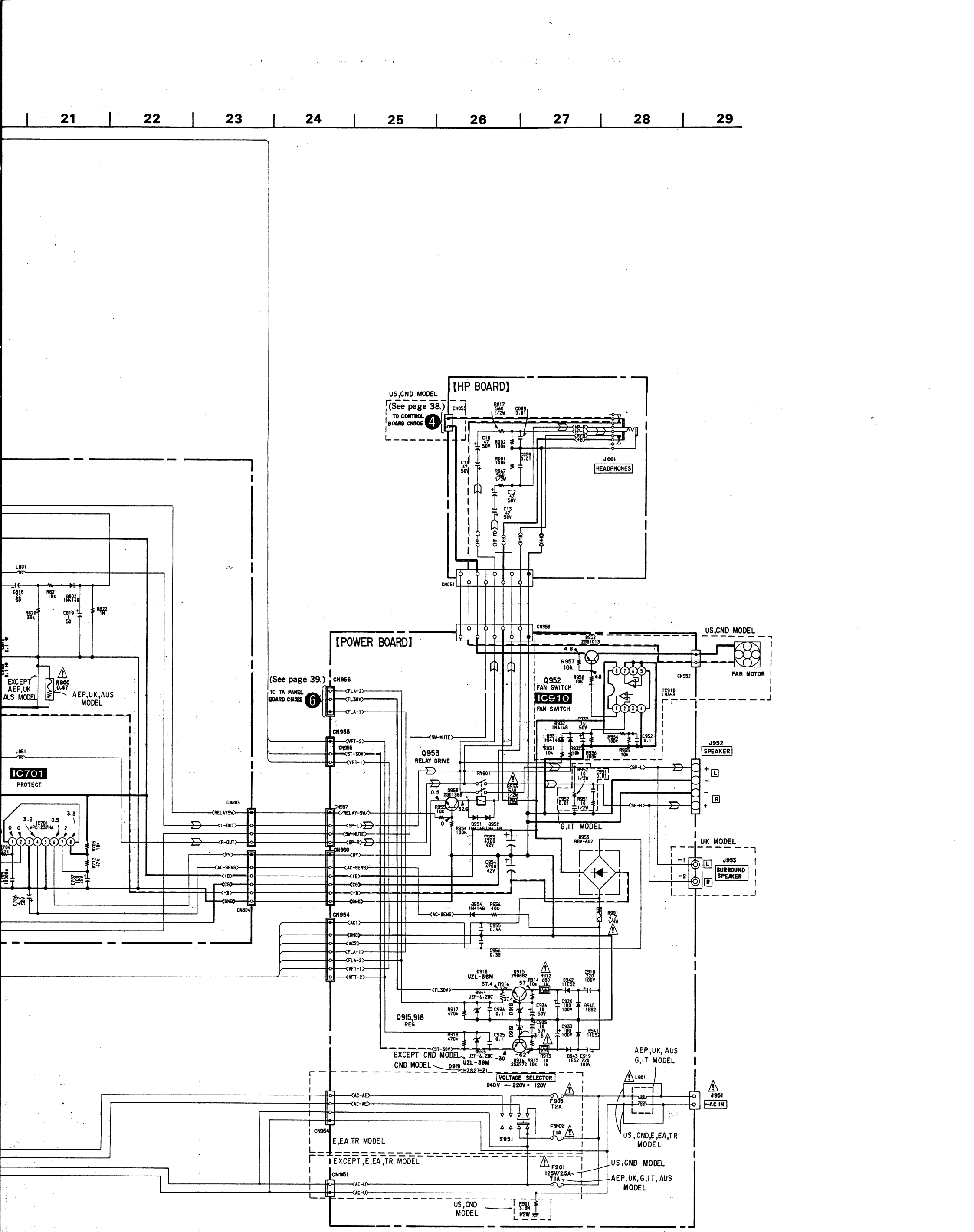
Q910,911
POWER SWITCH

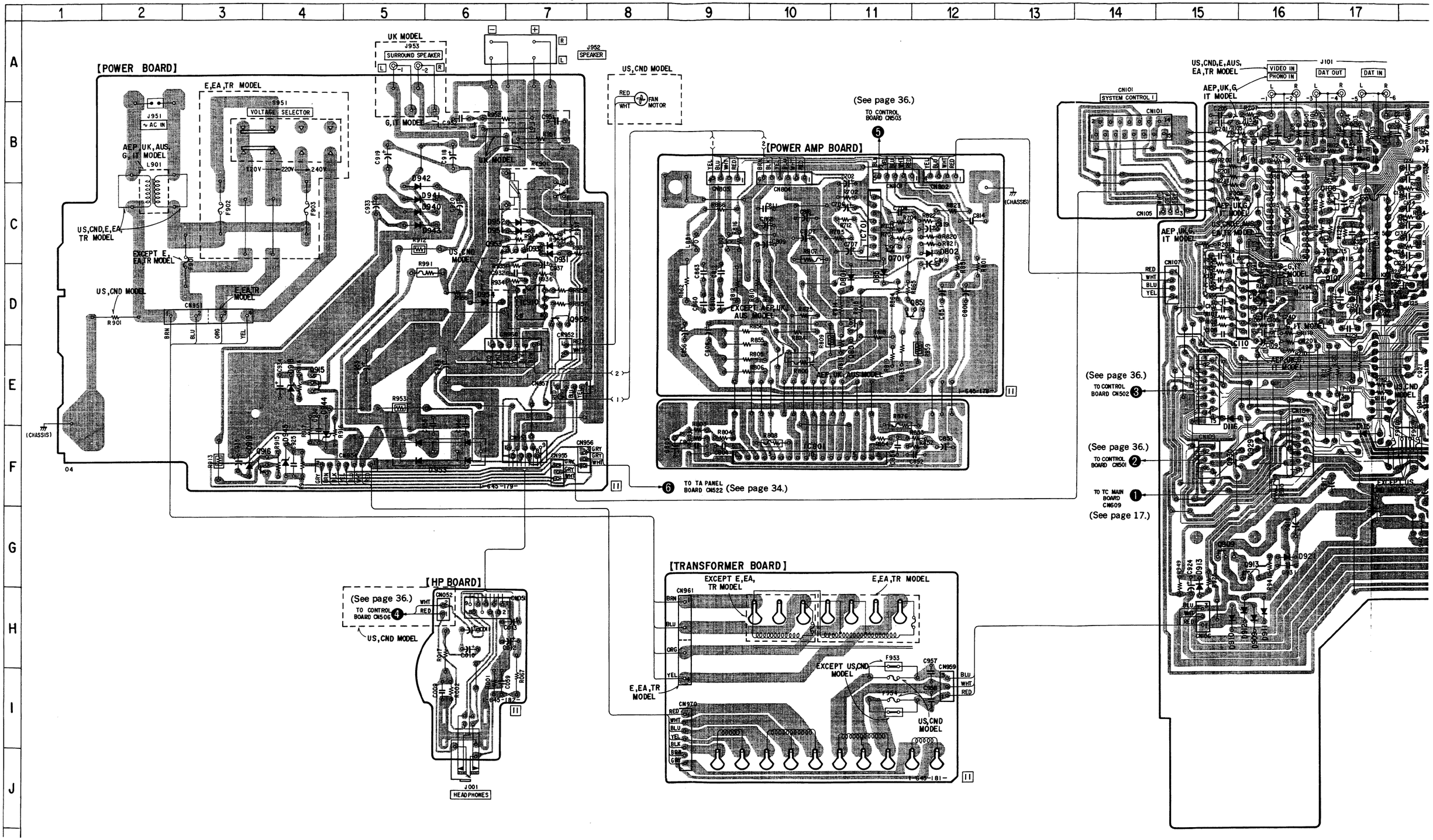
Q929,930
POWER SWITCH

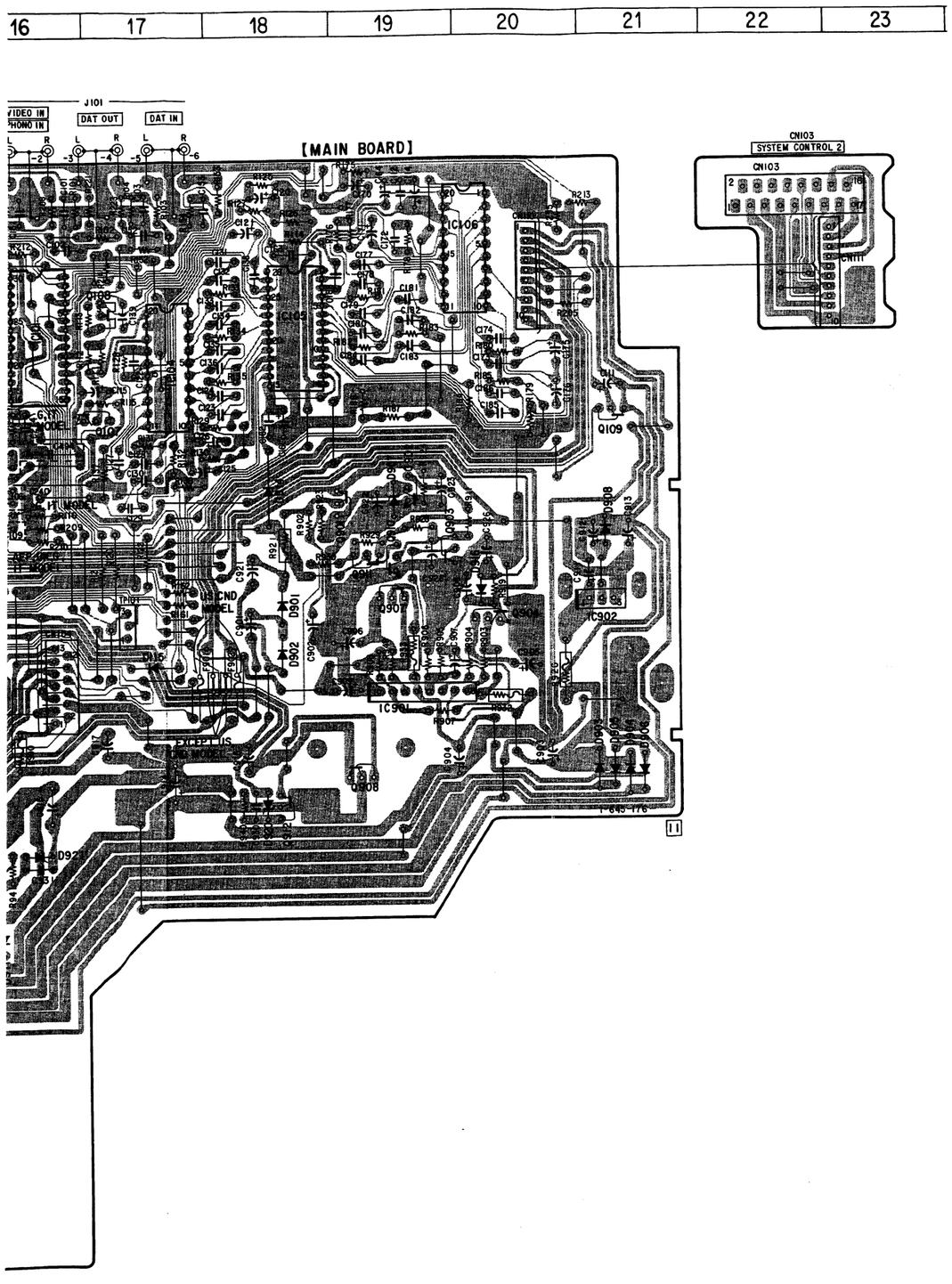
Q909,913
-7.5V REG

Q908,912
+5V REG


(SUR)
(AUBUS)
(PWR-ON/OFF)
(CDOFF)
(FUNC-CE)
(FUNC-DATA)
(FUNC-CLK)
(D-GND)
(5.6V)
(MOTOR-5V)
(MOTOR-GND)
(DEQ-DATA)
(DEQ-CLK)
CN108
3 TO CONTROL BOARD CN502
(See page 38.)
(See page 39.)
TO CONTROL BOARD CN503
5
CN801
【POWER AMP BOARD】
IC801
PROTECT
Q801,851
DC DET
(RELAYSW)
(L-IN)
(L-GND)
(R-IN)
(AIBC-FB)
IC801 STK4182-MK2
L801
L851
EXCEPT AEP,UK AUS MODEL
AEP,UK,AUS MODEL
IC701
PROTECT
Q701
PROTECT SWITCH
Q701 2SA1175
IC701 μPC1237HA
CN803
(RELAYSW)
(L-OUT)
(R-OUT)
(RY)
(AC-SENS)
(+B)
(CG)
(-B)
(GND)
CN804
CN802
(5VSW)
(CG)
(MUTE)
CN107
CN106
(AC)
(GND)
(AC)
【TRANSFORMER BOARD】
EXCEPT,US,CND MODEL
CN970
AC1
GND
AC2
FLA1
FLA2
VFT1
VFT2
US,CND MODEL
CN959
T901 POWER TRANSFORMER
F953 5A
F954 5A 125V
F953 5A 125V
F954 5A
C957 0.1
C958 0.1
CN961
E,EA,TR MODEL
EXCEPT US,CND MODEL
※NOT REPLACEABLE: BUIT IN TRANSFORMER
US,CND MODEL
(See page 38.)
TO CONTROL BOARD CN506
4
【POWER BOARD】
(See page 39.)
TO TA PANEL BOARD CN522
6
CN956
(FLA-2)
(FL30V)
(FLA-1)
CN955
(VFT-2)
(ST-30V)
(VFT-1)
(SW-MUTE)
Q953
RELAY DRIVE
CN957
(/RELAY-SW/)
(SP-L)
(SW-MUTE)
(SP-R)
CN960
(RY)
(AC-SENS)
(+B)
(CG)
(-B)
(GND)
CN954
(AC1)
(GND)
(AC2)
(FLA-1)
(FLA-2)
(VFT-1)
(VFT-2)
(FL30V)
Q915,916
REG
(ST-30V)
EXCEPT CND MODEL
CND MODEL
(AC-AE)
(AC-AE)
CN954
E,EA,TR MODEL
EXCEPT,E,EA,TR MODEL
CN951
(AC-U)
(AC-U)


【HP BOARD】
US,CND MODEL
(See page 38.)
TO CONTROL BOARD CN505
CN052
R017 560 1/2W
C089 0.01
C10 47 50V
R002 100k
R001 100k
R047 560 1/2W
C059 0.01
C11 47 50V
C12 47 50V
C13 47 50V
HP-R
HP-L
RYB
+B
J001
HEADPHONES
CN051
【POWER BOARD】
CN953
Q952 2SB1013
R957 10k
R958 10k
Q952 FAN SWITCH
IC910 FAN SWITCH
IC910 LM393
C937 10 50V
D932 1N4148
D931 1N4148
R931 10k
R932 10k
R934 100k
R935 10k
R936 100k
C932 0.1
US,CND MODEL
CN952
FAN MOTOR
(See page 39.)
TO TA PANEL BOARD CN522
CN956
FLA-2
FL30V
FLA-1
CN955
VFT-2
ST-30V
VFT-1
SW-MUTE
Q953 RELAY DRIVE
RY901
Q953 2SD1398
R955 10k
R954 100k
D951 1N4148
D952 1N4148
R952 10 1/2W
C951 0.01
C952 0.01
R951 10 1/2W
SP-L
SP-R
J952 SPEAKER
G,IT MODEL
C953 4700 42V
C954 4700 42V
D953 RBV-602
UK MODEL
J953 SURROUND SPEAKER
CN803
RELAY-SW
L-OUT
R-OUT
CN957
CN960
RY
AC-SENS
+B
CG
-B
GND
CN804
CN954
AC1
AC2
D954 1N4148
R956 10k
R991 4.7 1/4W
C955 0.33
C956 0.33
D918 UZL-38M
Q915 2SD882
R914 10k
R912 680 1W
D942 1ES2
C918 220 100V
R916 22k
D944 UZP-6.2BC
C920 100 100V
D940 1ES2
R917 470k
C936 0.1
D916
C934 10 50V
C935 10 50V
Q915,916 REG
R918 470k
C925 0.1
D917
C933 100 100V
D941 1ES2
D945 UZP-6.2BC
Q916 2SB772
R915 1k 1W
R913 1k 1W
D943 1ES2
C919 220 100V
EXCEPT CND MODEL
CND MODEL
D919 HZS27-2L
UZL-36M
VOLTAGE SELECTOR
240V ← 220V ← 120V
AEP,UK, AUS G,IT MODEL
L901
J951 ~AC IN
AC-AE
F903 T2A
F902 T1A
S951
CN954
E,EA,TR MODEL
US,CN,E,EA,TR MODEL
EXCEPT,E,EA,TR MODEL
CN951
AC-U
F901 125V/2.5A T1A
US,CND MODEL
AEP,UK,G,IT,AUS MODEL
US,CND MODEL
R901 3.3M V2W
L801
C818 22 50
R821 10k
D802 1N4148
R820 33k
C819 1 50
R822 1M
EXCEPT AEP,UK AUS MODEL
R800 0.47
AEP,UK,AUS MODEL
L851
IC701 PROTECT
IC701 μPC1237HA
R705 10k
R712 47k
C707 100 25V
C706 50V
L704 10000μ


[POWER BOARD]
E,EA,TR MODEL
J951
AC IN
VOLTAGE SELECTOR
120V
220V
240V
AEP,UK,AUS, G,IT MODEL
L901
US,CND,E,EA, TR MODEL
EXCEPT E, EA,TR MODEL
US,CND MODEL
R901
E,EA,TR MODEL
(CHASSIS)
UK MODEL
J953
SURROUND SPEAKER
J952
SPEAKER
G,IT MODEL
R991
R953
CN957
CN956
CN955
RED
WHT
FAN MOTOR
TO TA PANEL BOARD CN522 (See page 34.)
[POWER AMP BOARD]
(See page 36.)
TO CONTROL BOARD CN503
(CHASSIS)
EXCEPT AEP,UK AUS MODEL
AEP,UK AUS MODEL
IC701
IC801
[HP BOARD]
(See page 36.)
TO CONTROL BOARD CN506
CN052
CN051
US,CND MODEL
J001
HEADPHONES
[TRANSFORMER BOARD]
EXCEPT E,EA, TR MODEL
E,EA,TR MODEL
CN961
CN970
CN959
F953
F954
EXCEPT US,CND MODEL
US,CND MODEL
US,CND,E,AUS, EA,TR MODEL
VIDEO IN
PHONO IN
J101
DAT OUT
DAT IN
AEP,UK,G, IT MODEL
CN101
SYSTEM CONTROL I
CN105
(See page 36.)
TO CONTROL BOARD CN502
(See page 36.)
TO CONTROL BOARD CN501
TO TC MAIN BOARD CN609
(See page 17.)
EXCEPT US MODEL


16
17
18
19
20
21
22
23
J101
VIDEO IN
PHONO IN
DAT OUT
DAT IN
[MAIN BOARD]
CN103
SYSTEM CONTROL 2
CN103
CN111
IC106
IC105
IC902
IC901
Q109
Q907
Q908
Q901
D901
D902
D908
D921
R213
C174
C183
C181
C177
C127
C121
C135
C115
C107
C106
C105
C102
C101
C103
C104
C108
C109
C110
C111
C112
C113
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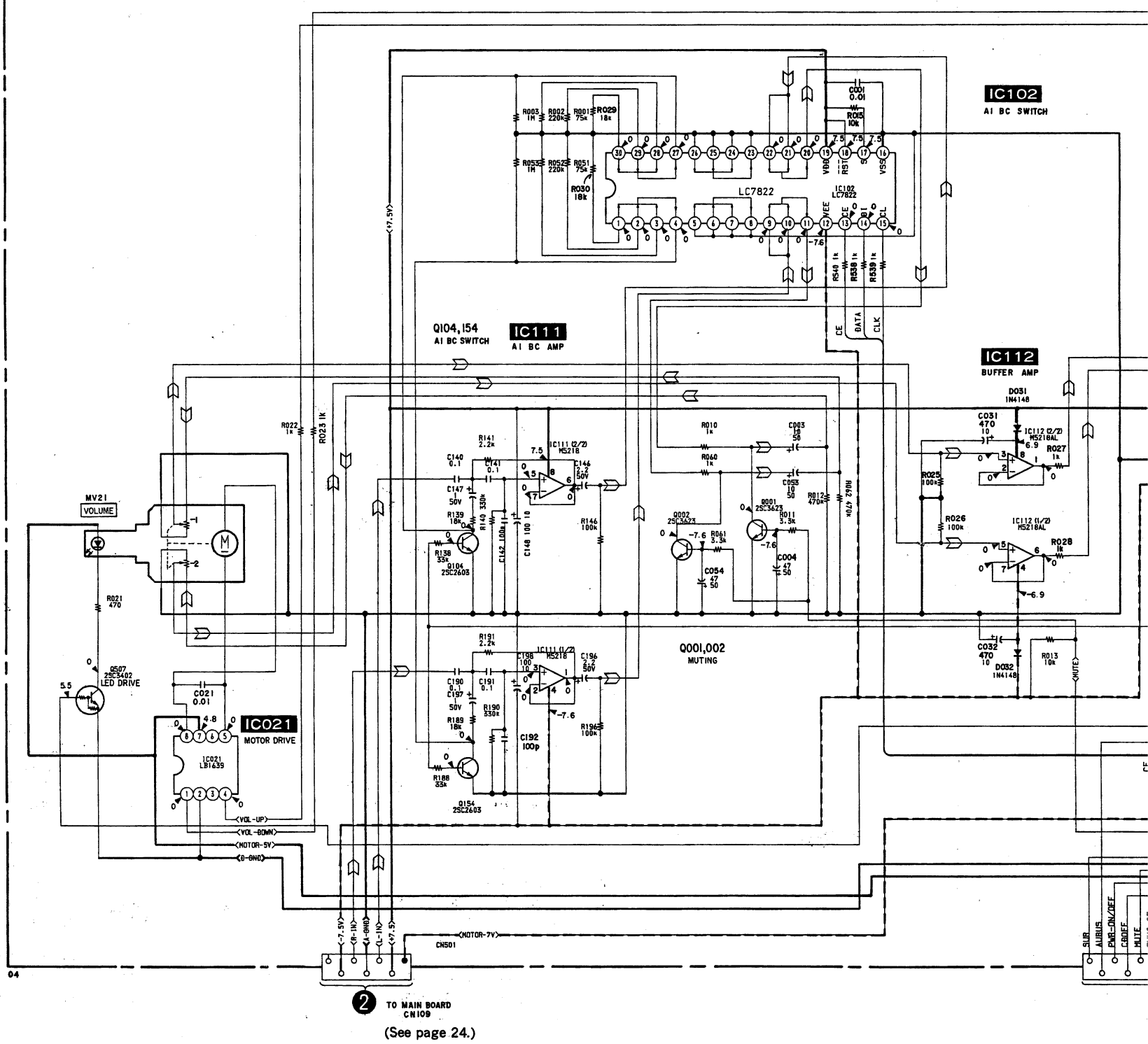
C202
C203
C204
C205
C206
C207
C208
C209
C210
C211
C212
C213
C214
C215
C216
C217
C218
C219
C220
C221
C222
C223

5-8. SCHEMATIC DIAGRAM —PANEL SECTION— • Refer to page 40 for IC Block Diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▬▬ : B+ Line
- ▬ ▬ ▬ : B– Line
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark: PLAY
  ✳ : Impossible measurement point
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ▷ : PB (DECK A)
- CND: Canadian model
- G: Germany model
- IT: Italian model
- AUS: Australian model
- EA: Saudi Arabia model
- TR: Tourist model

【CONTROL BOARD】



(See page 24.)

ON— • Refer to page 40 for IC Block Diagrams.

4 5 6 7 8 9 10 11 12 13 14 15

se noted. pF: μμF
t for electrolytics

s unless otherwise

ct to ground under

mpedance 10MΩ).
to normal produc-

【TA PANEL BOARD】

FL521 FLUORESCENT INDICATOR TUBE

<VOL-DOWN>
<VOL-UP>

IC102
AI BC SWITCH

LC7822

Q104,154
AI BC SWITCH

IC111
AI BC AMP

IC112
BUFFER AMP

Q001,002
MUTING

Q501
AU BUS
BUFFER

IC501
SYSTEM CONT
μPD78012

AEP,UK,G,IT
MODEL

US,CND,E,EA
AUS,TR MODEL

US,CND
MODEL

TO MAIN BOARD
CN109
(See page 24.)

TO MAIN BOARD
CN108
(See page 27.)

TO HP BOARD
CN052
(See page 28.)

(See page 28.)

TO POWER BOARD CN956

6

CN522

CN521

【TA PANEL BOARD】

FL521 FLUORESCENT INDICATOR TUBE

IC551
FL DRIVE

IC551
T862C950RF

SYSTEM POWER S520
DISPLAY S521
DIRECT S522
FUNCTION S523
+ S524
PRESET S525
- S526

DIRECT 0520
TUNER 0521
CD 0522
DAT 0523
0524
0525
ON STANDBY 0526

AEP, UK, G, IT MODEL

PHONO / TUNER / CD / DAT / TAPE

TUNER / CD / DAT / TAPE / VIDEO

US,CND, E,AUS,EA, TR MODEL

DIGITAL EFFEC CONTROL

<VOL-DOWN>
<VOL-UP>

IC504
RESET DET

<KEY1>
<KEY0>

IC501
SYSTEM CONTROL
1C501
μPD78012

Q502 RESET
Q506 RELAY SWITCH
Q503 MUTING SWITCH
Q505 SWITCH
Q509 SWITCH
Q501 AU BUS BUFFER

X501 8.38M

AEP,UK,G,IT MODEL

US,CND,E,EA AUS,TR MODEL

CN505

CN502

CN506

US,CND MODEL

CN503

3 TO MAIN BOARD CN108

(See page 27.)

4 TO HP BOARD CN052

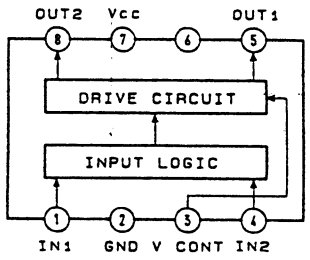
(See page 28.)

5 TO POWER AMP BOARD CN801

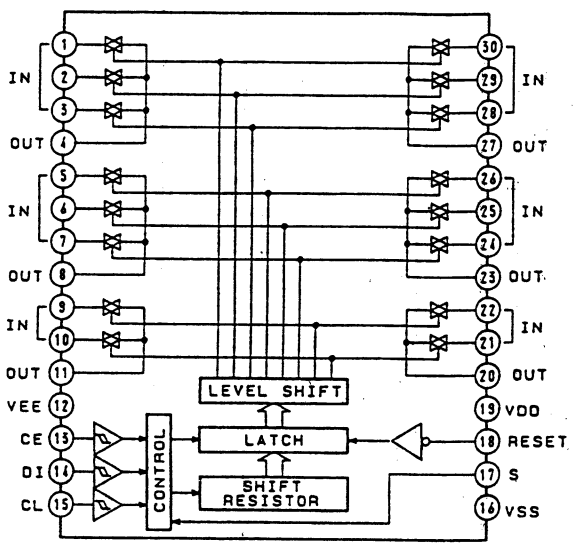
(See page 27.)

• IC Block Diagrams

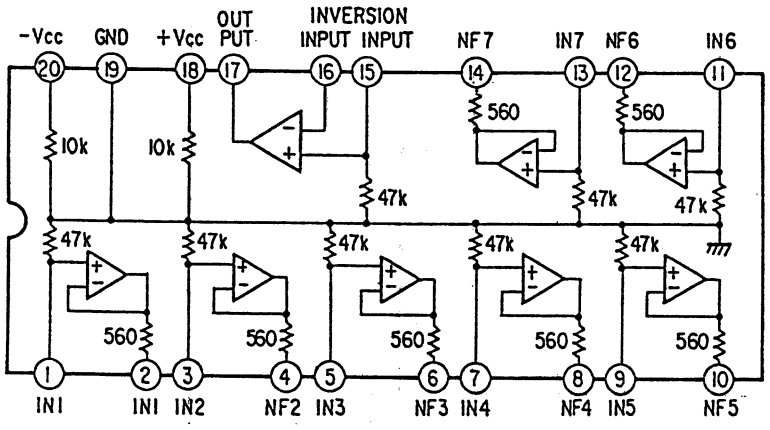
IC021 LB1639



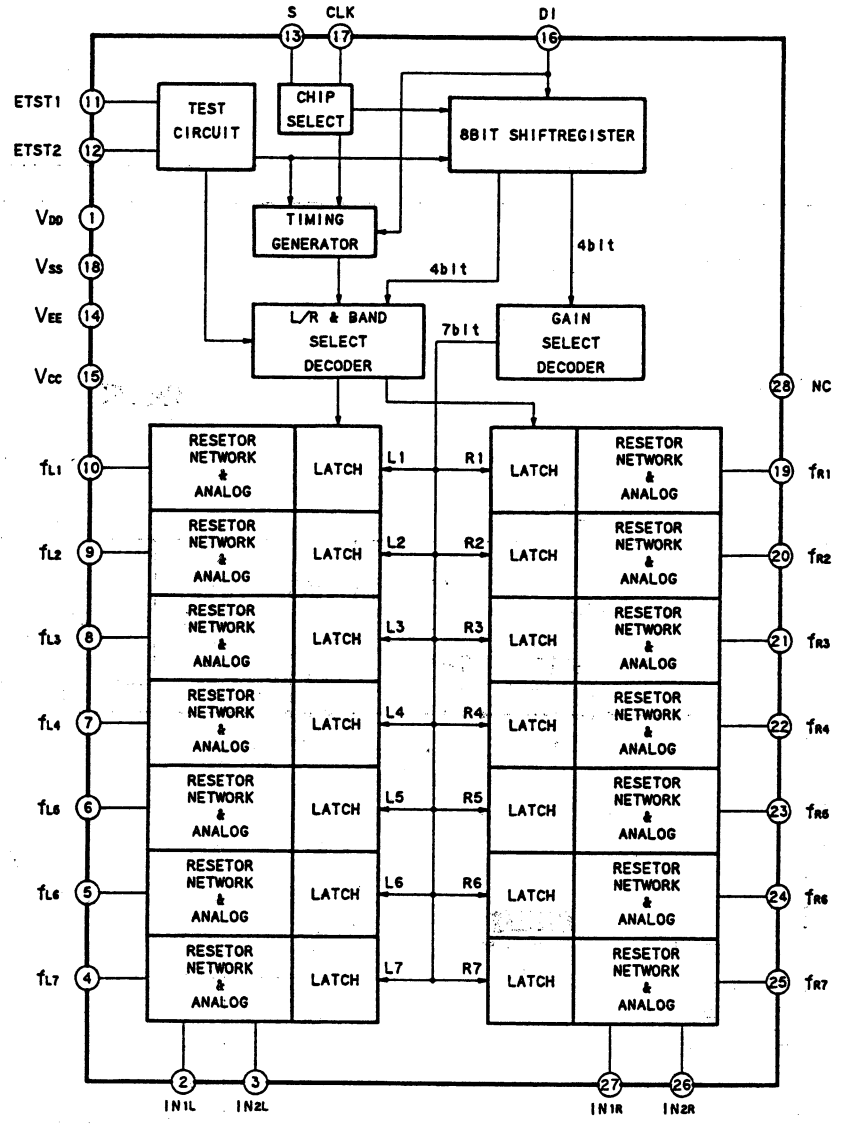
IC101, 102 LC7822



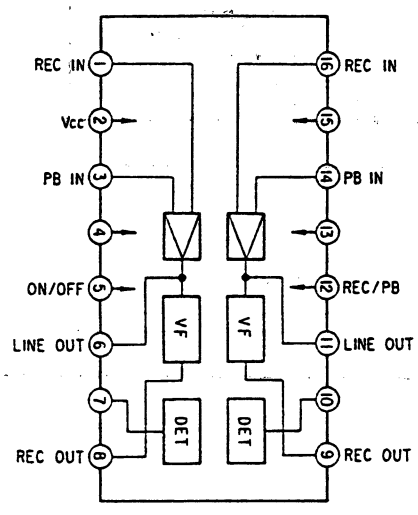
IC104, 106 M5229P



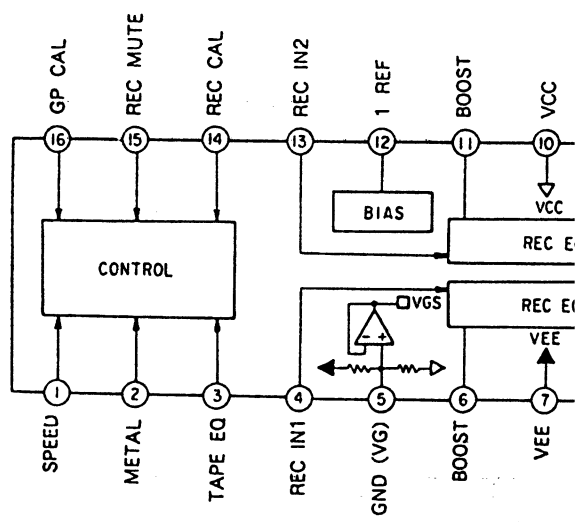
IC105 NJU7305L



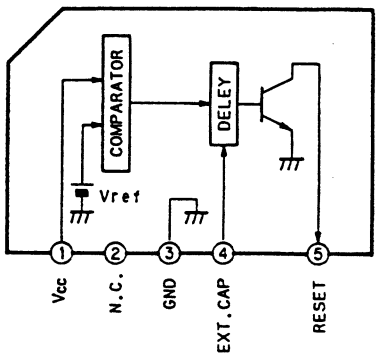
IC202 CXA1101M



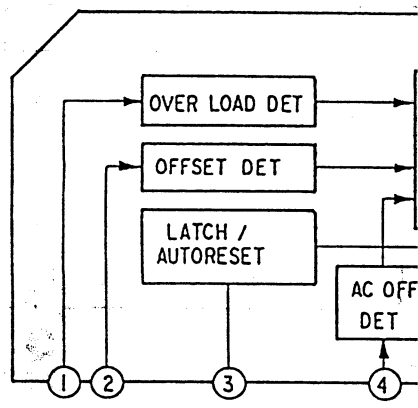
IC205 CXA1578M



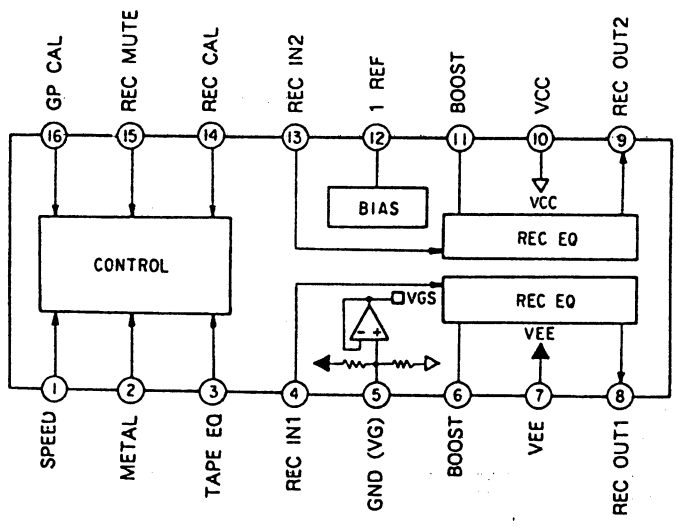
IC504 M51953AL



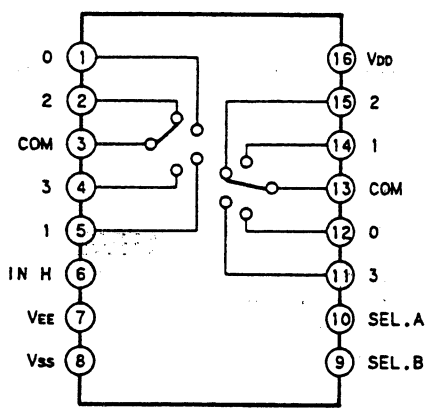
IC701 μPD1237HA



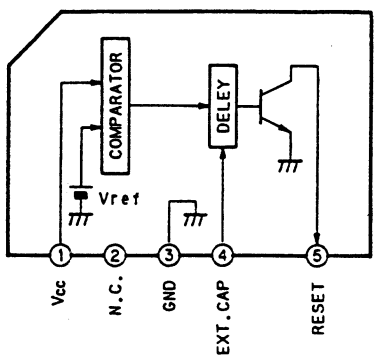
IC205 CXA1578M



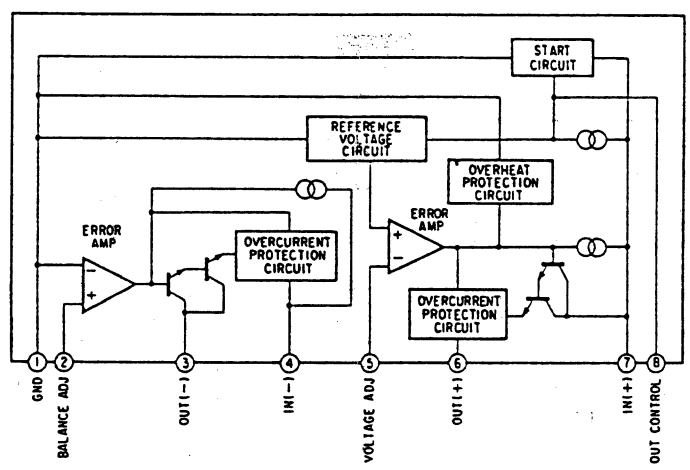
IC406 CD4052BCM



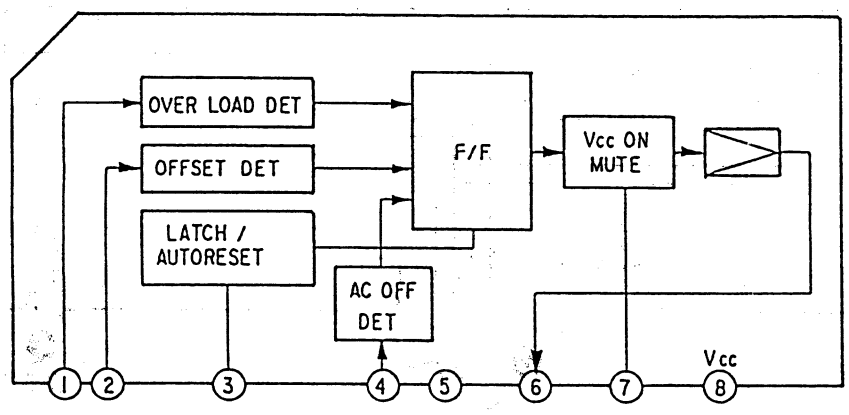
IC504 M51953AL



IC901 M5230L-A



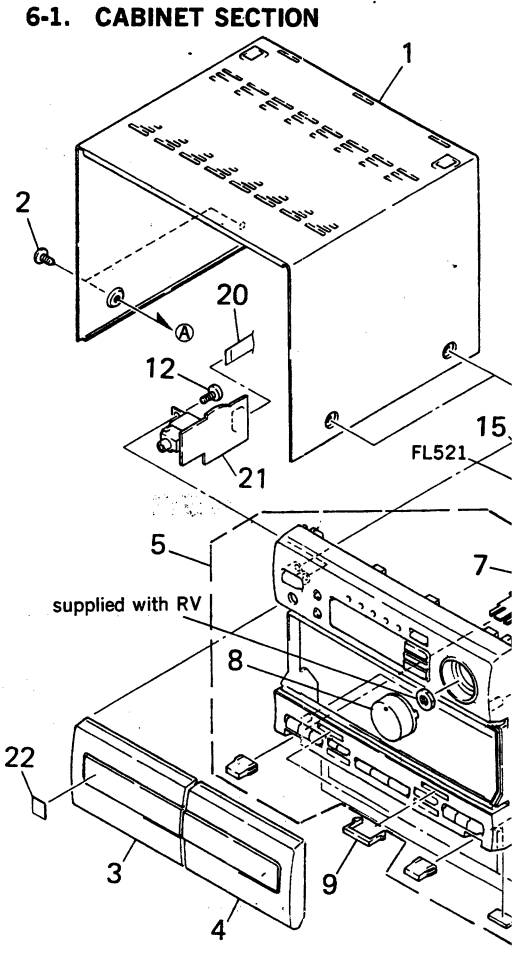
IC701 μPD1237HA



NOTE:

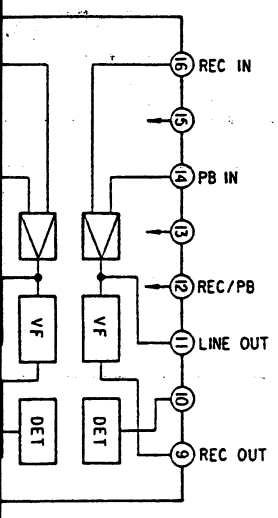
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.

6-1. CABINET SECTION



Ref. No.	Part No.	Description
* 1	4-953-614-11	CASE
2	3-363-099-01	SCREW (CASE 3 TP2)
3	X-4942-819-1	LID (A) ASSY, CASSETTE
4	X-4942-820-1	LID (B) ASSY, CASSETTE
5	X-4942-816-1	PANEL ASSY, FRONT (US, Canadian, E, AUS, EA, T
5	X-4942-821-1	PANEL ASSY, FRONT (AEP,
6	4-930-336-21	FOOT (FELT)
7	3-489-099-11	SPRING, TENSION
8	X-4942-539-1	KNOB (VOL) ASSY
9	4-953-606-01	COVER, AZIMUTH
10	4-953-601-01	KNOB, SLIDE
* 11	A-4356-163-A	TC SW BOARD, COMPLETE (
* 11	A-4356-209-A	TC SW BOARD, COMPLETE (
12	4-951-620-01	SCREW (2.6X8), +BVTP
* 13	A-4356-160-A	TA PANEL BOARD, COMPLETI

02 CXA1101M



SECTION 6
EXPLEDED VIEWS

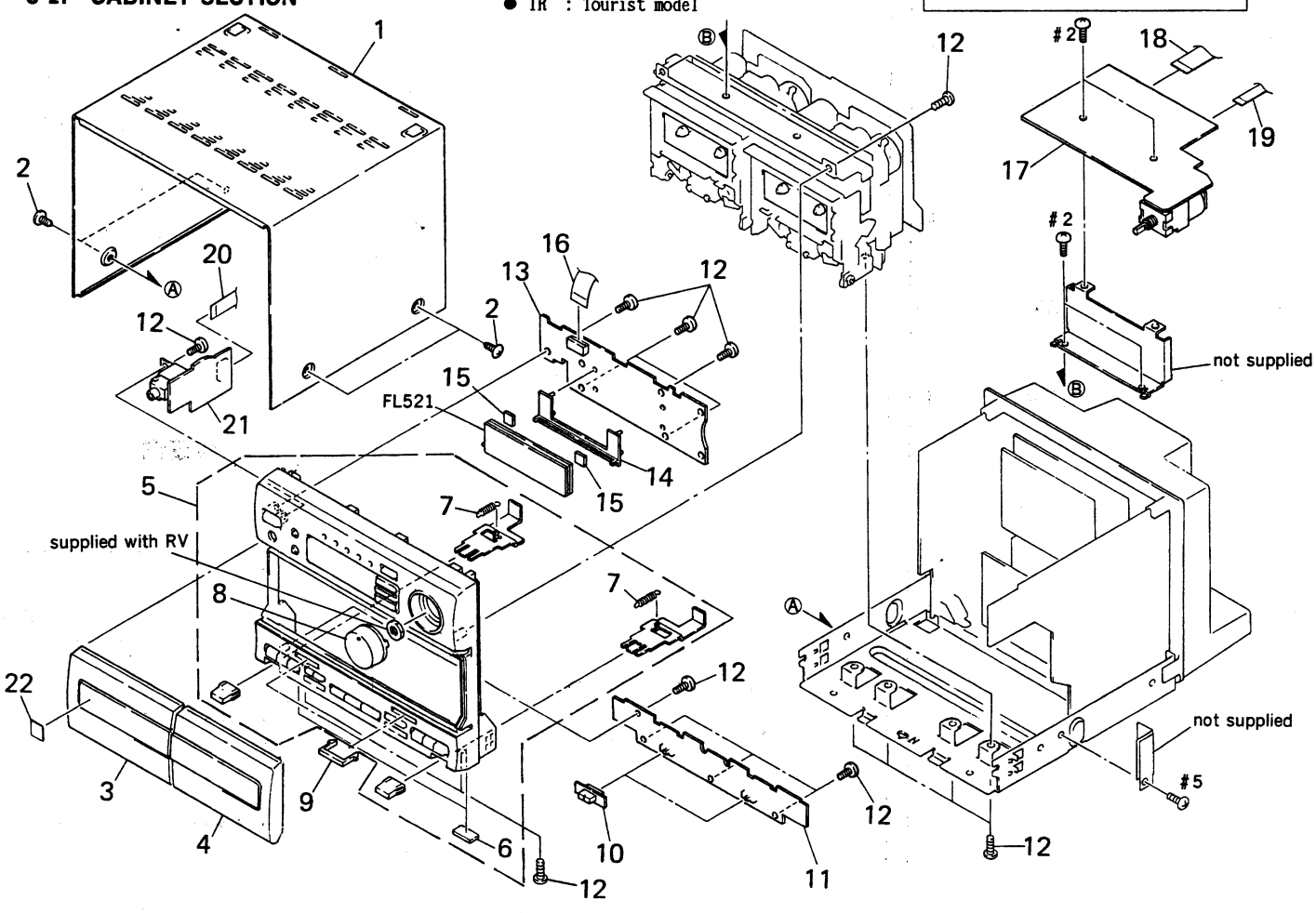
NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.
- G : Germany model
- IT : Italian model
- AUS : Australian model
- EA : Saudi Arabia model
- TR : Tourist model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

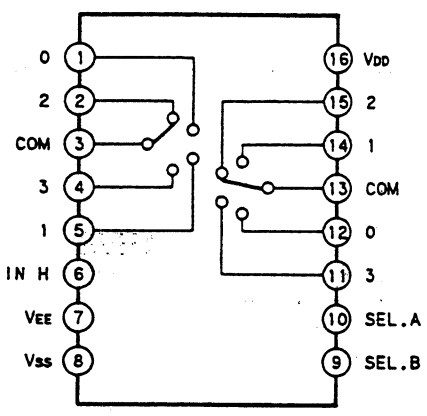
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CABINET SECTION

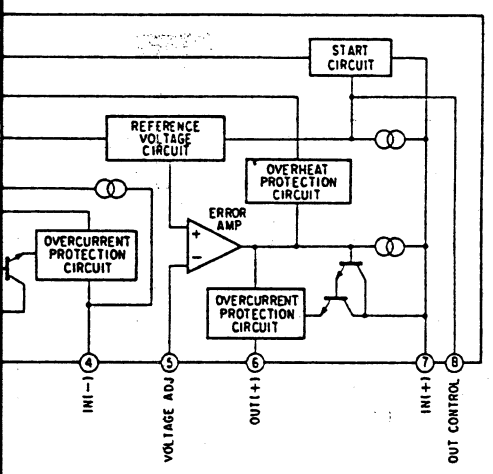


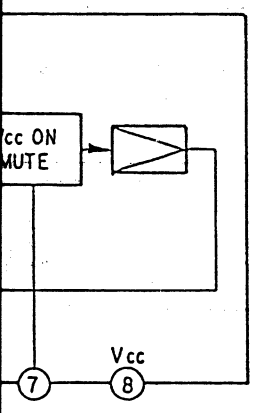
Ref. No.	Part No.	Description	Remark
* 1	4-953-614-11	CASE	
2	3-363-099-01	SCREW (CASE 3 TP2)	
3	X-4942-819-1	LID (A) ASSY, CASSETTE	
4	X-4942-820-1	LID (B) ASSY, CASSETTE	
5	X-4942-816-1	PANEL ASSY, FRONT (US, Canadian, E, AUS, EA, TR)	
5	X-4942-821-1	PANEL ASSY, FRONT (AEP, UK, G, IT)	
6	4-930-336-21	FOOT (FELT)	
7	3-489-099-11	SPRING, TENSION	
8	X-4942-539-1	KNOB (VOL) ASSY	
9	4-953-606-01	COVER, AZIMUTH	
10	4-953-601-01	KNOB, SLIDE	
* 11	A-4356-163-A	TC SW BOARD, COMPLETE (G, IT)	
* 11	A-4356-209-A	TC SW BOARD, COMPLETE (EXCEPT G, IT)	
12	4-951-620-01	SCREW (2.6X8), +BVTP	
* 13	A-4356-160-A	TA PANEL BOARD, COMPLETE (G, IT)	
* 13	A-4356-191-A	TA PANEL BOARD, COMPLETE (E, EA, TR)	
* 13	A-4356-202-A	TA PANEL BOARD, COMPLETE (US, Canadian)	
* 13	A-4356-206-A	TA PANEL BOARD, COMPLETE (AEP, UK, AUS)	
* 14	4-953-602-01	HOLDER (FL TUBE)	
* 15	4-921-941-01	CUSHION (FL)	
16	1-575-903-11	WIRE, FLAT TYPE (15 CORE)	
* 17	A-4356-161-A	CONTROL BOARD, COMPLETE (G, IT)	
* 17	A-4356-192-A	CONTROL BOARD, COMPLETE (E, AUS, EA, TR)	
* 17	A-4356-203-A	CONTROL BOARD, COMPLETE (US, Canadian)	
* 17	A-4356-207-A	CONTROL BOARD, COMPLETE (AEP, UK)	
18	1-696-727-11	WIRE (FLAT TYPE) (15 CORE)	
19	1-575-731-11	WIRE, FLAT TYPE (7 CORE)	
20	1-690-588-31	WIRE, FLAT TYPE (9 CORE)	
* 21	1-645-182-11	HP BOARD	
22	3-703-710-41	STICKER, SONY SYMBOL (12)	
FL521	1-519-735-11	INDICATOR TUBE, FLUORESCENT	

IC406 CD4052BCM



-A





● Semiconductor Location

Ref. No.	Location
D031	C-12
D032	B-13
D501	E-11
D503	D-9
D504	D-9
D505	B-10
D508	B-10
D509	E-11
D520	D-2
D521	E-6
D522	E-5
D523	E-4
D524	E-4
D525	E-3
D526	E-1
IC021	E-14
IC102	D-12
IC111	D-13
IC112	B-12
IC501	D-10
IC504	D-9
IC551	D-5
Q001	D-14
Q002	E-14
Q104	D-13
Q154	C-12
Q501	E-11
Q502	D-9
Q503	C-10
Q505	E-9
Q506	C-10
Q507	E-14

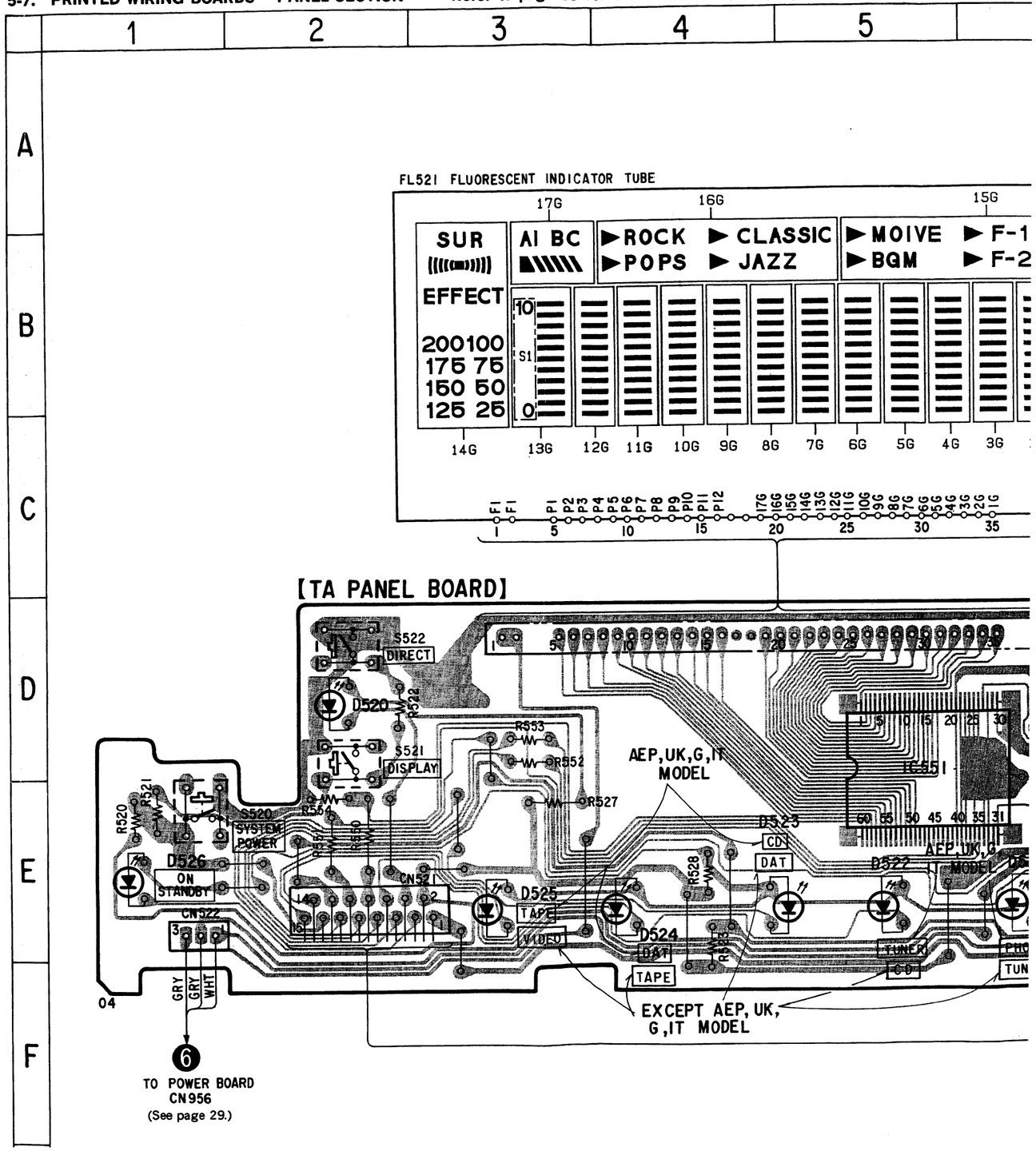
Note:

● ○—— : parts extracted from the component side.

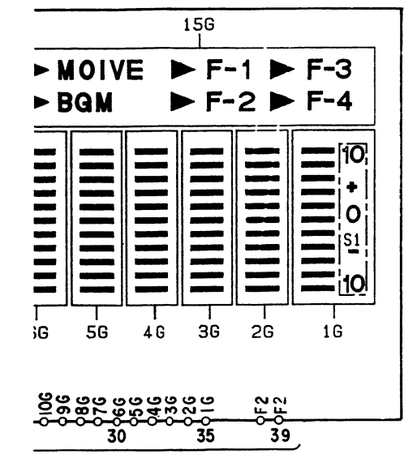
● CND: Canadian model
● G: Germany model
● IT: Italian model
● AUS: Australian model
● EA: Saudi Arabia model
● TR: Tourist model

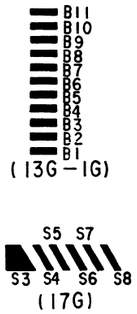
5-7. PRINTED WIRING BOARDS —PANEL SECTION—

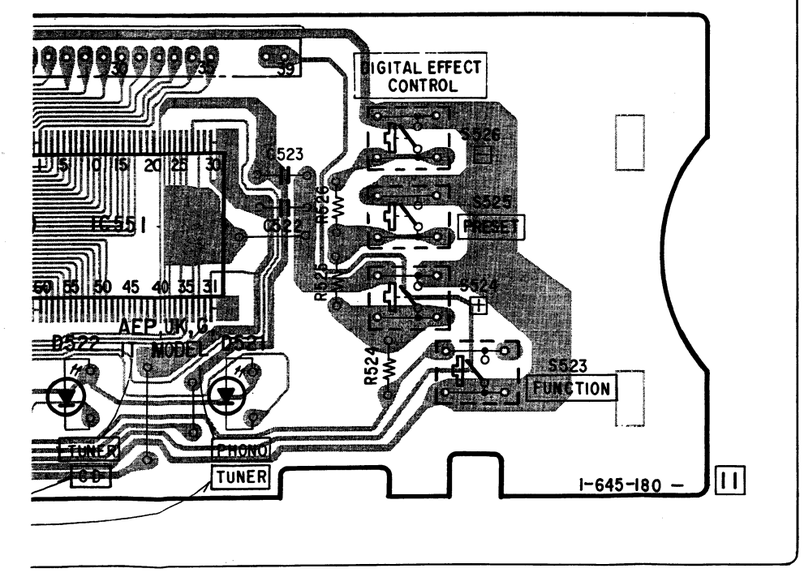
● Refer to page 13 for Semiconductor Lead Layouts.

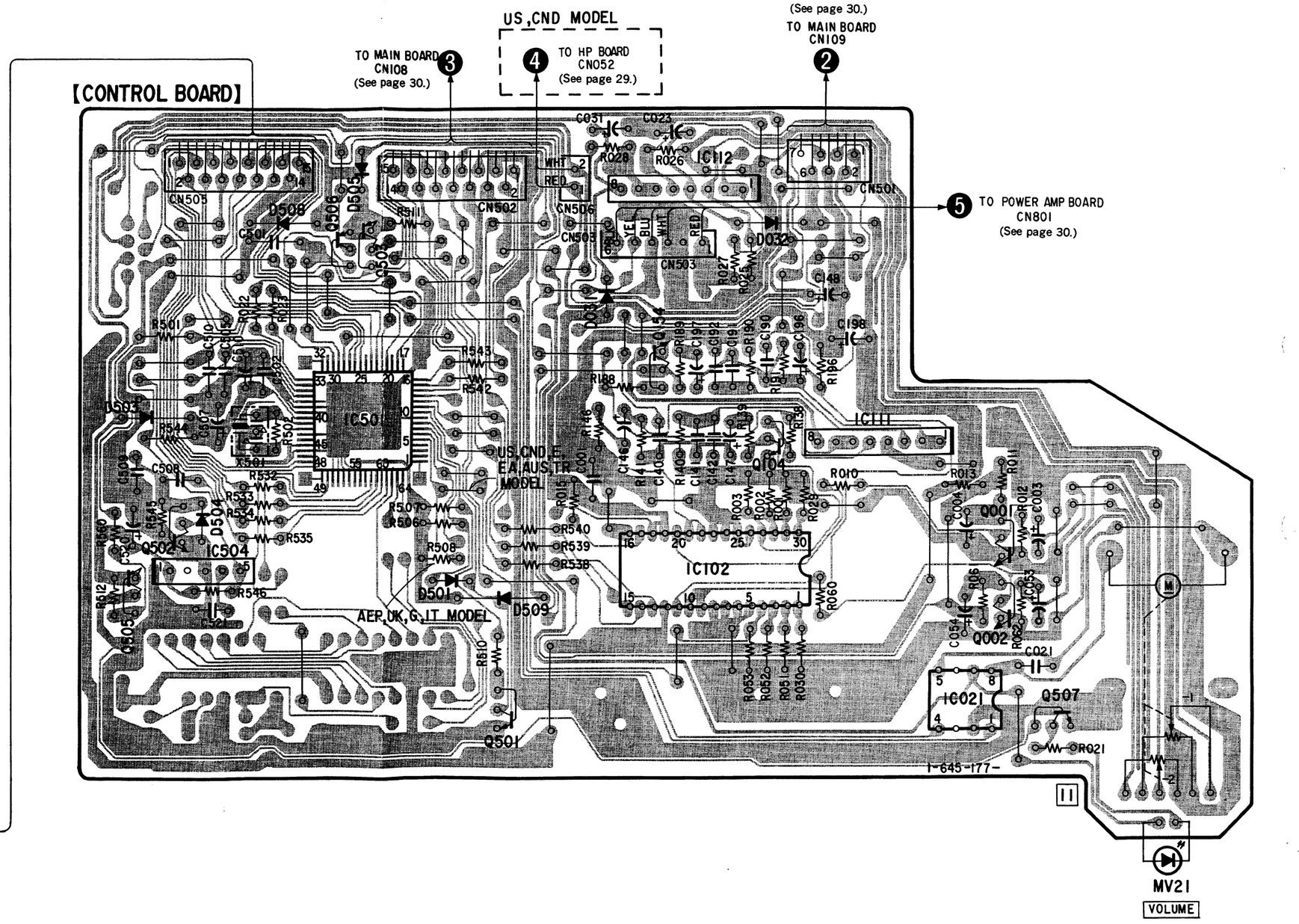


5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15

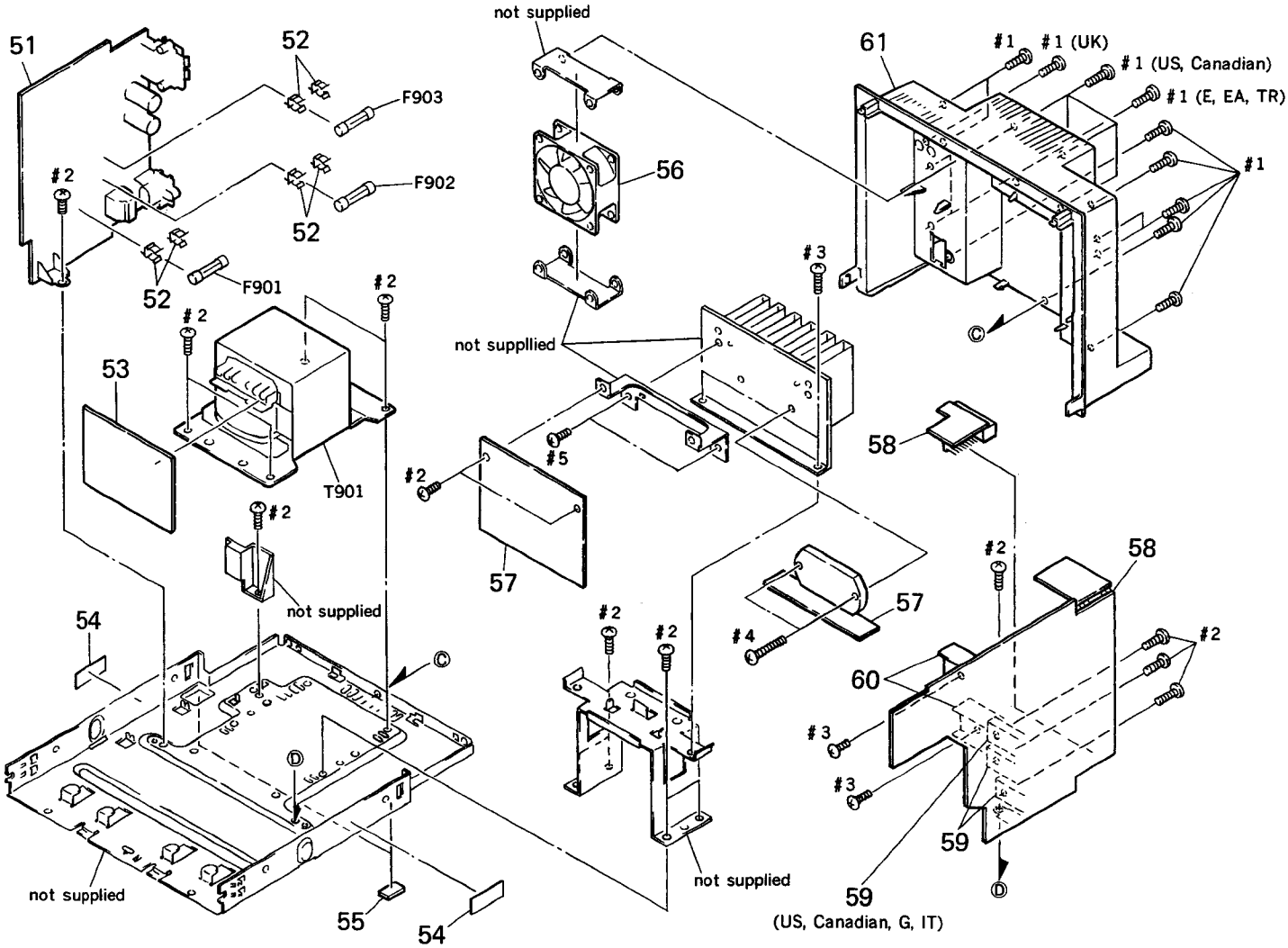








6-2. CHASSIS SECTION

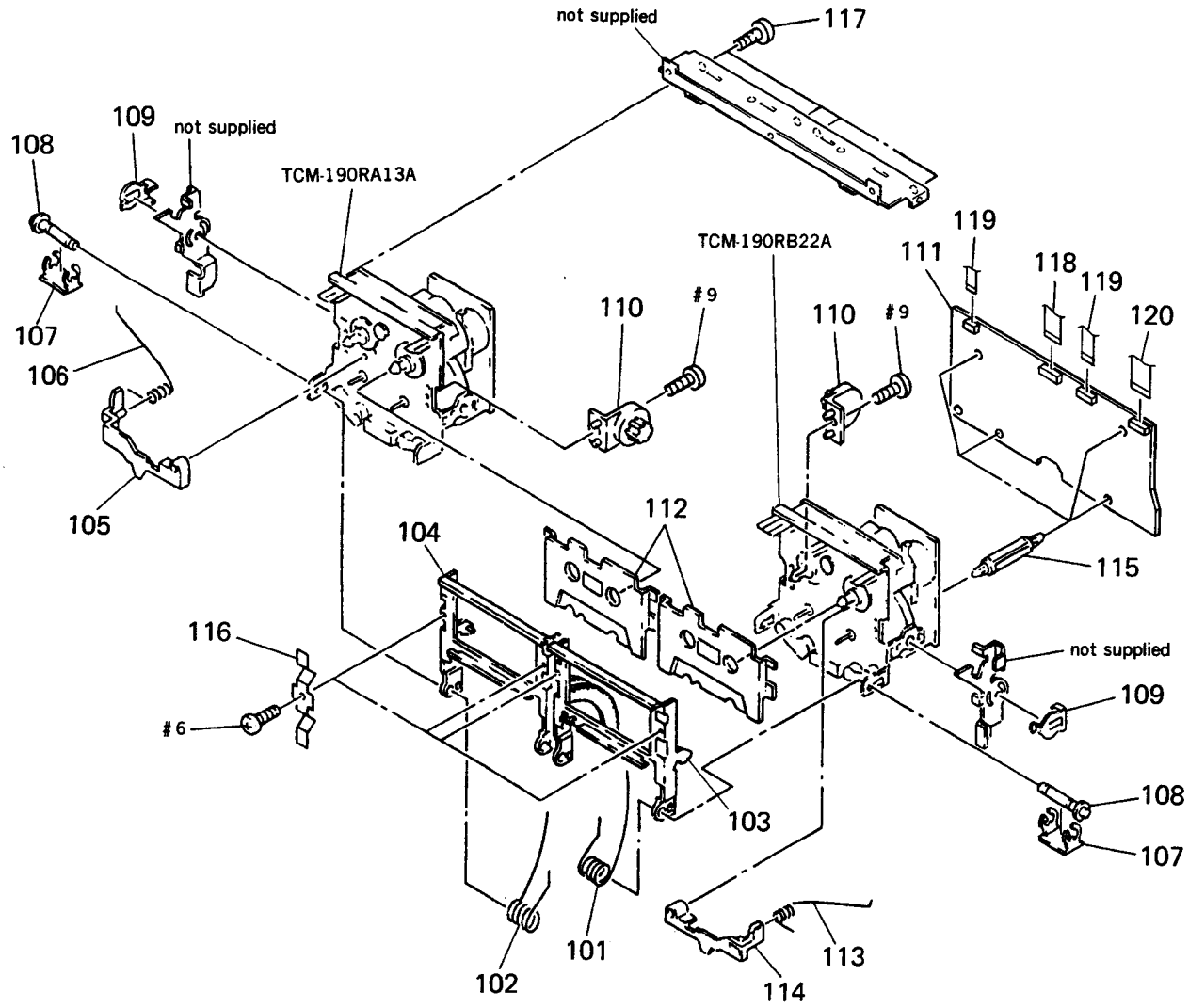


Ref. No.	Part No.	Description	Remark
* 51	A-4356-156-A	POWER BOARD, COMPLETE (G, IT)	
* 51	A-4356-186-A	POWER BOARD, COMPLETE (E, TR)	
* 51	A-4356-187-A	POWER BOARD, COMPLETE (EA)	
* 51	A-4356-194-A	POWER BOARD, COMPLETE (US, Canadian)	
* 51	A-4356-197-A	POWER BOARD, COMPLETE (AEP, AUS)	
* 51	A-4356-198-A	POWER BOARD, COMPLETE (UK)	
* 52	1-533-213-31	HOLDER, FUSE	
* 53	1-645-181-11	TRANSFORMER BOARD	
* 54	3-703-044-26	LABEL, CAUTION (US, Canadian)	
55	4-930-336-21	FOOT (FELT)	
56	1-541-860-41	MOTOR, DC FAN (US, Canadian)	
* 57	A-4356-158-A	POWER AMP BOARD, COMPLETE (G, IT)	
* 57	A-4356-189-A	POWER AMP BOARD, COMPLETE (E, EA, TR)	
* 57	A-4356-196-A	POWER AMP BOARD, COMPLETE (US, Canadian)	
* 57	A-4356-200-A	POWER AMP BOARD, COMPLETE (AEP, UK, AUS)	
* 58	A-4356-159-A	MAIN BOARD, COMPLETE (G, IT)	
* 58	A-4356-190-A	MAIN BOARD, COMPLETE (E, AUS, EA, TR)	
* 58	A-4356-201-A	MAIN BOARD, COMPLETE (US, Canadian)	
* 58	A-4356-205-A	MAIN BOARD, COMPLETE (AEP, UK)	

Ref. No.	Part No.	Description	Remark
* 59	3-309-144-21	HEAT SINK	
* 60	4-363-146-71	HEAT SINK, V. OUT (EXCEPT US, Canadian, G, IT)	
* 61	4-953-613-01	PANEL, BACK (US, Canadian, AUS)	
* 61	4-953-613-11	PANEL, BACK (AEP, G, IT)	
* 61	4-953-613-21	PANEL, BACK (UK)	
* 61	4-953-613-31	PANEL, BACK (E, EA, TR)	
⚠F901	1-532-078-00	FUSE T1A (AEP, UK, G, IT, AUS)	
⚠F901	1-532-744-11	FUSE, GLASS TUBE 125V/2.5A (US, Canadian)	
⚠F902	1-532-203-00	FUSE T2A (E, EA, TR)	
⚠F903	1-532-078-00	FUSE T1A (E, EA, TR)	
⚠T901	1-697-002-11	TRANSFORMER, POWER (E, EA, TR)	
⚠T901	1-697-003-11	TRANSFORMER, POWER (UK, AUS)	
⚠T901	1-697-004-11	TRANSFORMER, POWER (AEP, G, IT)	
⚠T901	1-697-005-11	TRANSFORMER, POWER (US, Canadian)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

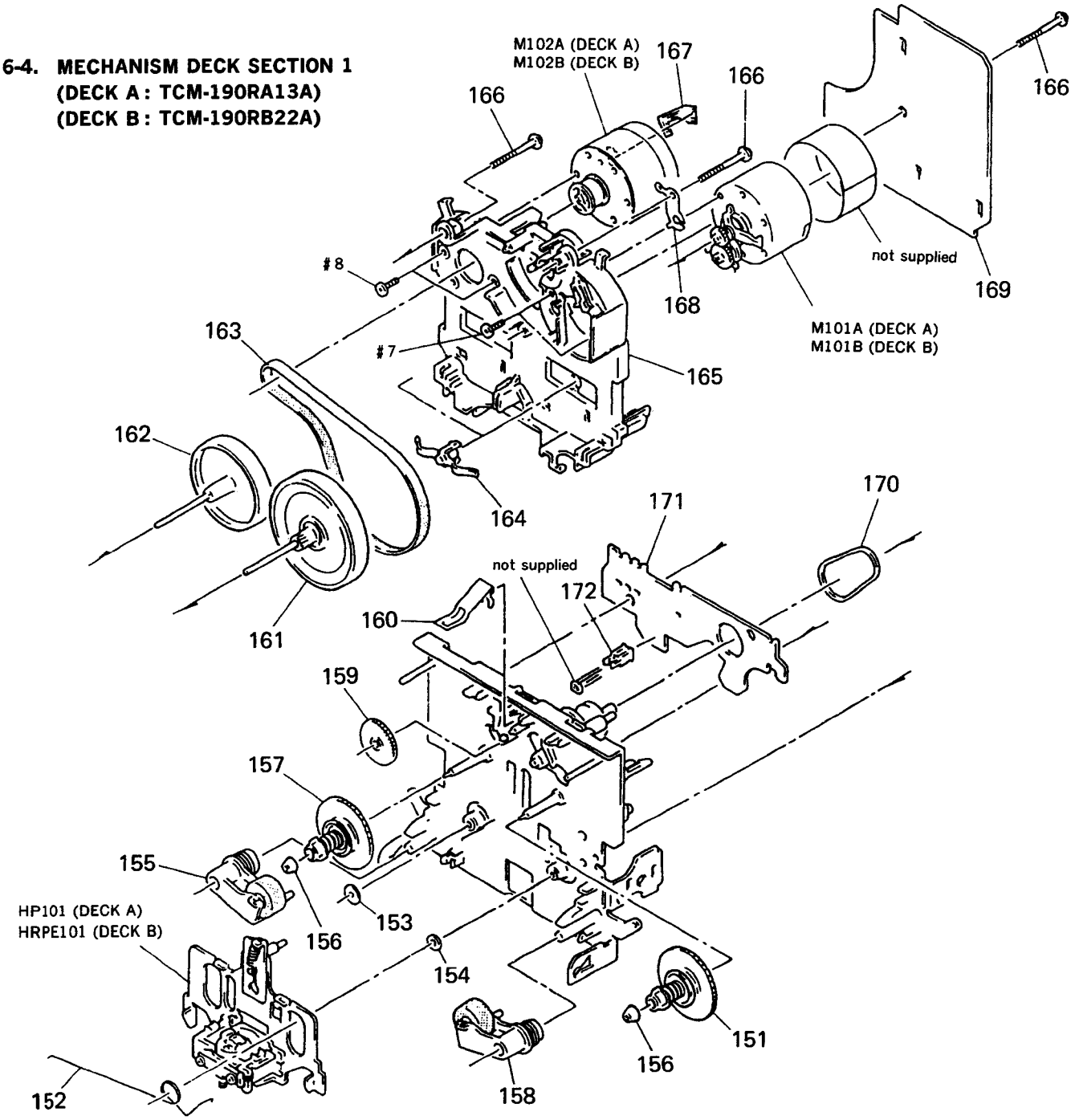
6-3. CASSETTE HOLDER SECTION



Ref. No.	Part No.	Description	Remark
101	3-354-960-01	SPRING (LOADING R), TORSION	
102	3-354-959-01	SPRING (LOADING L), TORSION	
103	X-3362-856-1	HOLDER (R) ASSY, CASSETTE	
104	X-3362-857-1	HOLDER (L) ASSY, CASSETTE	
105	3-354-955-01	LEVER (EJ SAFTY LEVER L)	
106	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
107	3-367-720-01	RING (W), RETAINING	
108	3-367-721-01	SHAFT (FULCRUM SHAFT)	
109	3-354-957-01	JOINT (LOCK LEVER)	
110	3-354-963-01	DAMPER	

Ref. No.	Part No.	Description	Remark
* 111	A-4356-164-A	TC MAIN BOARD, COMPLETE (G, IT)	
* 111	A-4356-210-A	TC MAIN BOARD, COMPLETE (EXCEPT G, IT)	
112	3-367-711-01	RETAINER, CASSETTE	
113	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
114	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
* 115	3-682-419-21	HOLDER, P.C.B	
116	3-340-137-01	SPRING, CASSETTE RETAINER	
117	4-951-620-01	SCREW (2.6X8), +BVTP	
118	1-696-731-11	WIRE (FLAT TYPE) (15 CORE)	
119	1-696-725-11	WIRE (FLAT TYPE) (9 CORE)	
120	1-696-726-11	WIRE (FLAT TYPE) (13 CORE)	

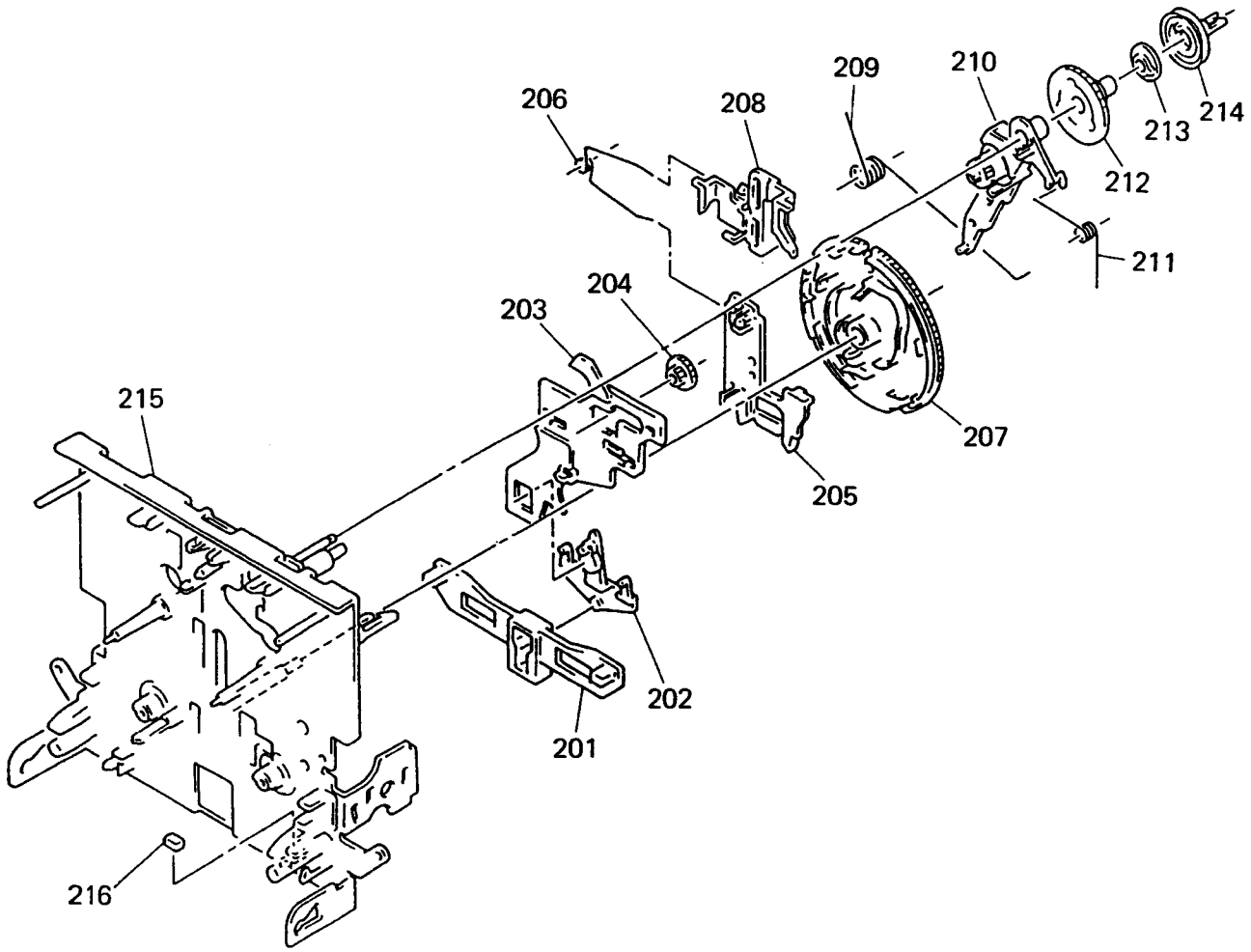
6-4. MECHANISM DECK SECTION 1
(DECK A : TCM-190RA13A)
(DECK B : TCM-190RB22A)



Ref. No.	Part No.	Description	Remark
151	X-3359-404-1	TABLE ASSY, REEL	
152	3-359-455-01	SPRING, TORSION	
153	3-356-714-01	WASHER	
154	3-356-713-01	WASHER	
155	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY	
156	3-362-308-01	CAP (REEL)	
157	X-3362-078-1	TABLE ASSY (B), REEL	
158	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY	
159	3-359-424-01	GEAR (REV GEAR)	
160	3-359-430-01	SPRING(CASSETTE RETAINER), LEAF	
161	X-3359-406-1	FLYWHEEL (FWD) ASSY	
162	X-3359-410-1	FLYWHEEL (REV) ASSY	
163	3-359-417-01	BELT (FLAT), CAPSTAN	
164	3-575-321-00	RETAINER, THRUST, CAPSTAN	
* 165	3-359-436-01	BASE (THRUST RETAINER), FITTING	

Ref. No.	Part No.	Description	Remark
166	3-359-414-01	SCREW (+PTPWH 2X23)	
167	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	
168	3-359-450-01	PLATE, GROUND	
* 169	A-2006-399-A	MD-A BOARD, COMPLETE	
* 169	A-2006-400-A	MD-B BOARD, COMPLETE	
170	3-359-466-01	BELT (FR), SQUARE	
* 171	1-634-841-14	SW-A BOARD (DECK A)	
* 171	1-634-841-14	SW-B BOARD (DECK B)	
172	3-343-419-01	HOLDER (S SENSER A)	
HP101	A-2003-868-F	BASE ASSY, HEAD (DECK A)	
HRPE101A	2003-838-F	BASE ASSY, HEAD (DECK B)	
M101A	X-3363-501-1	MOTOR ASSY, REEL (DECK A)	
M101B	X-3363-501-1	MOTOR ASSY, REEL (DECK B)	
M102A	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK A)	
M102B	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK B)	

6-5. MECHANISM DECK SECTION 2
(DECK A : TCM-190RA13A)
(DECK B : TCM-190RB22A)



Ref. No.	Part No.	Description	Remark
* 201	3-359-425-01	SLIDER (REVERSE SLIDER)	
202	3-359-426-01	LEVER (REVERSE LEVER)	
* 203	3-359-415-01	SLIDER (TRIGGER SLIDER)	
204	3-359-448-01	GEAR (TRIGGER)	
* 205	3-359-427-01	SLIDER (REVERSE SLIDER)	
206	3-359-454-01	SPRING, TORSION	
207	3-359-420-01	GEAR (CAM GEAR)	
208	3-359-429-01	SLIDER (BRAKE PLATE)	

Ref. No.	Part No.	Description	Remark
209	3-359-456-01	SPRING(TRIGGER SPRING), TORSION	
210	X-3359-405-1	LEVER (FR ARM) ASSY	
211	3-359-453-01	SPRING (FR ARM), TORSION	
212	3-359-419-01	GEAR (FR GEAR)	
213	3-359-421-01	CLUTCH (REEL DISK)	
214	3-359-418-01	PULLEY (FR PULLEY)	
215	X-3363-790-1	CHASSIS ASSY, MECHANICAL	
216	3-359-469-01	SPACER	

SECTION 7
ELECTRICAL PARTS LIST

CONTROL

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- G : Germany model
- IT : Italian model
- AUS : Australian model
- EA : Saudi Arabia model
- TR : Tourist model

Ref. No.	Part No.	Description			Remark
*	A-4356-161-A	CONTROL BOARD, COMPLETE (G, IT)			
*	A-4356-192-A	CONTROL BOARD, COMPLETE (E, AUS, EA, TR)			
*	A-4356-203-A	CONTROL BOARD, COMPLETE (US, Canadian)			
*	A-4356-207-A	CONTROL BOARD, COMPLETE (AEP, UK)			
		**********			
		< CAPACITOR >			
C001	1-161-379-00	CERAMIC	0.01uF	20%	25V
C003	1-124-907-11	ELECT	10uF	20%	50V
C004	1-124-910-11	ELECT	47uF	20%	50V
C021	1-136-153-00	FILM	0.01uF	5%	50V
C031	1-124-472-11	ELECT	470uF	20%	10V
C032	1-124-472-11	ELECT	470uF	20%	10V
C053	1-124-907-11	ELECT	10uF	20%	50V
C054	1-124-910-11	ELECT	47uF	20%	50V
C140	1-136-165-00	FILM	0.1uF	5%	50V
C141	1-136-165-00	FILM	0.1uF	5%	50V
C142	1-162-282-31	CERAMIC	100PF	10%	50V
C146	1-124-925-11	ELECT	2.2uF	20%	100V
C147	1-124-903-11	ELECT	1uF	20%	50V
C148	1-124-443-00	ELECT	100uF	20%	10V
C190	1-136-165-00	FILM	0.1uF	5%	50V
C191	1-136-165-00	FILM	0.1uF	5%	50V
C192	1-162-282-31	CERAMIC	100PF	10%	50V
C196	1-124-925-11	ELECT	2.2uF	20%	100V
C197	1-124-903-11	ELECT	1uF	20%	50V
C198	1-124-443-00	ELECT	100uF	20%	10V
C501	1-161-379-00	CERAMIC	0.01uF	20%	25V
C502	1-164-159-11	CERAMIC	0.1uF		50V
C505	1-164-159-11	CERAMIC	0.1uF		50V
C506	1-125-623-11	CAP, DOUBLE LAYEYERS			0.22F
C507	1-124-907-11	ELECT	10uF	20%	50V
C508	1-136-173-00	FILM	0.47uF	5%	50V
C509	1-164-159-11	CERAMIC	0.1uF		50V
C510	1-161-379-00	CERAMIC	0.01uF	20%	25V
C520	1-124-907-11	ELECT	10uF	20%	50V
C521	1-136-165-00	FILM	0.1uF	5%	50V
		< CONNECTOR >			
* CN501	1-568-850-11	SOCKET, CONNECTOR 7P			
* CN502	1-568-858-11	SOCKET, CONNECTOR 15P			
* CN505	1-568-858-11	SOCKET, CONNECTOR 15P			
		< DIODE >			
D031	8-719-987-63	DIODE	1N4148M		
D032	8-719-987-63	DIODE	1N4148M		
D115	8-719-987-63	DIODE	1N4148M		
D116	8-719-987-63	DIODE	1N4148M		
D501	8-719-987-63	DIODE	1N4148M		
D503	8-719-987-63	DIODE	1N4148M		
D504	8-719-987-63	DIODE	1N4148M		
D505	8-719-987-63	DIODE	1N4148M		
D508	8-719-987-63	DIODE	1N4148M		
D509	8-719-987-63	DIODE	1N4148M		
		< IC >			
IC021	8-759-820-62	IC	LB1639		
IC102	8-759-805-14	IC	LC7822		
IC111	8-759-634-50	IC	M5218AL		
IC112	8-759-634-50	IC	M5218AL		
IC501	8-759-081-00	IC	uPD78011GC-507-AB8		
IC504	8-759-634-97	IC	M51953AL		
		< VARIABLE RESISTOR >			
MV021	1-241-999-11	RES, VAR, CARBON 100K/100K (VOLUME)			
		< TRANSISTOR >			
Q001	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q002	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q104	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q154	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q501	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q502	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q503	8-729-900-61	TRANSISTOR	DTA114ES		
Q505	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q506	8-729-900-61	TRANSISTOR	DTA114ES		
Q507	8-729-900-80	TRANSISTOR	DTC114ES		

CONTROL HP MAIN

Ref.No.	Part No.	Description				Remark
		< RESISTOR >				
R001	1-247-876-11	CARBON	75K	5%	1/4W	
R002	1-247-887-00	CARBON	220K	5%	1/4W	
R003	1-247-903-00	CARBON	1M	5%	1/4W	
R010	1-249-417-11	CARBON	1K	5%	1/4W	F
R011	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R012	1-247-895-00	CARBON	470K	5%	1/4W	
R013	1-249-429-11	CARBON	10K	5%	1/4W	
R015	1-249-429-11	CARBON	10K	5%	1/4W	
R021	1-249-413-11	CARBON	470	5%	1/4W	F
R022	1-249-417-11	CARBON	1K	5%	1/4W	F
R023	1-249-417-11	CARBON	1K	5%	1/4W	F
R025	1-249-441-11	CARBON	100K	5%	1/4W	
R026	1-249-441-11	CARBON	100K	5%	1/4W	
R027	1-249-417-11	CARBON	1K	5%	1/4W	F
R028	1-249-417-11	CARBON	1K	5%	1/4W	F
R029	1-249-432-11	CARBON	18K	5%	1/4W	
R030	1-249-432-11	CARBON	18K	5%	1/4W	
R051	1-247-876-11	CARBON	75K	5%	1/4W	
R052	1-247-887-00	CARBON	220K	5%	1/4W	
R053	1-247-903-00	CARBON	1M	5%	1/4W	
R060	1-249-417-11	CARBON	1K	5%	1/4W	F
R061	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R062	1-247-895-00	CARBON	470K	5%	1/4W	
R138	1-249-435-11	CARBON	33K	5%	1/4W	
R139	1-249-432-11	CARBON	18K	5%	1/4W	
R140	1-247-891-00	CARBON	330K	5%	1/4W	
R141	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R146	1-249-441-11	CARBON	100K	5%	1/4W	
R188	1-249-435-11	CARBON	33K	5%	1/4W	
R189	1-249-432-11	CARBON	18K	5%	1/4W	
R190	1-247-891-00	CARBON	330K	5%	1/4W	
R191	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R196	1-249-441-11	CARBON	100K	5%	1/4W	
R501	1-249-417-11	CARBON	1K	5%	1/4W	F
R502	1-247-903-00	CARBON	1M	5%	1/4W	
R506	1-249-429-11	CARBON	10K	5%	1/4W	
R507	1-249-429-11	CARBON	10K	5%	1/4W	
R508	1-249-437-11	CARBON (AEP, UK, G, IT)	47K	5%	1/4W	
R510	1-249-429-11	CARBON	10K	5%	1/4W	
R511	1-249-429-11	CARBON	10K	5%	1/4W	
R512	1-249-429-11	CARBON	10K	5%	1/4W	
R532	1-249-417-11	CARBON	1K	5%	1/4W	F
R533	1-249-417-11	CARBON	1K	5%	1/4W	F
R534	1-249-417-11	CARBON	1K	5%	1/4W	F
R535	1-249-417-11	CARBON	1K	5%	1/4W	F
R538	1-249-417-11	CARBON	1K	5%	1/4W	F
R539	1-249-417-11	CARBON	1K	5%	1/4W	F
R540	1-249-417-11	CARBON	1K	5%	1/4W	F
R542	1-249-417-11	CARBON	1K	5%	1/4W	F
R543	1-249-417-11	CARBON	1K	5%	1/4W	F
R544	1-249-433-11	CARBON	22K	5%	1/4W	
R545	1-249-433-11	CARBON	22K	5%	1/4W	
R546	1-249-429-11	CARBON	10K	5%	1/4W	
R560	1-249-429-11	CARBON	10K	5%	1/4W	
		< VIBRATOR >				
X501	1-579-599-21	VIBRATOR, CERAMIC (8.32MHz)				
**********						
*	1-645-182-11	HP BOARD				
		********				
		< CAPACITOR >				
C10	1-124-910-11	ELECT	47uF	20%	50V	
C11	1-124-910-11	ELECT	47uF	20%	50V	
C12	1-124-910-11	ELECT	47uF	20%	50V	
C13	1-124-910-11	ELECT	47uF	20%	50V	
C009	1-161-379-00	CERAMIC	0.01uF	20%	25V	
C059	1-161-379-00	CERAMIC	0.01uF	20%	25V	
		< CONNECTOR >				
* CN051	1-568-852-11	SOCKET, CONNECTOR 9P				
* CN052	1-564-505-11	PLUG, CONNECTOR 2P (US, Canadian)				
		< JACK >				
J001	1-562-837-21	JACK (HEADPHONES)				
		< RESISTOR >				
R001	1-249-441-11	CARBON	100K	5%	1/4W	
R002	1-249-441-11	CARBON	100K	5%	1/4W	
R017	1-247-749-11	CARBON	560	5%	1/2W	
R067	1-247-749-11	CARBON	560	5%	1/2W	
**********						
*	A-4356-159-A	MAIN BOARD, COMPLETE (G, IT)				
*	A-4356-190-A	MAIN BOARD, COMPLETE (E, AUS, EA, TR)				
*	A-4356-201-A	MAIN BOARD, COMPLETE (US, Canadian)				
*	A-4356-205-A	MAIN BOARD, COMPLETE (AEP, UK)				
		**********				
*	3-309-144-21	HEAT SINK				
	7-682-547-04	SCREW +BVTT 3X6 (S)				
*	4-363-146-71	HEAT SINK, V.OUT (AEP, UK, E, AUS, EA, TR)				
		< CAPACITOR >				
C101	1-162-282-31	CERAMIC	100PF	10%	50V	

Ref. No.	Part No.	Description			Remark
C102	1-162-282-31	CERAMIC	100PF	10%	50V
C103	1-162-282-31	CERAMIC	100PF	10%	50V
C105	1-162-286-31	CERAMIC (AEP, UK, G, IT)	220PF	10%	50V
C106	1-124-927-11	ELECT (AEP, UK, G, IT)	4.7uF	20%	100V
C107	1-130-480-00	MYLAR (AEP, UK, G, IT)	0.0056uF	5%	50V
C108	1-130-473-00	MYLAR (AEP, UK, G, IT)	0.0015uF	5%	50V
C109	1-124-925-11	ELECT (AEP, UK, G, IT)	2.2uF	20%	100V
C111	1-124-903-11	ELECT	1uF	20%	50V
C112	1-161-379-00	CERAMIC	0.01uF	20%	25V
C113	1-161-379-00	CERAMIC	0.01uF	20%	25V
C114	1-124-907-11	ELECT	10uF	20%	50V
C115	1-124-903-11	ELECT	1uF	20%	50V
C120	1-124-907-11	ELECT	10uF	20%	50V
C121	1-124-925-11	ELECT	2.2uF	20%	100V
C122	1-162-286-31	CERAMIC	220PF	10%	50V
C123	1-136-168-00	FILM	0.18uF	5%	50V
C124	1-136-168-00	FILM	0.18uF	5%	50V
C125	1-124-902-00	ELECT	0.47uF	20%	50V
C126	1-124-902-00	ELECT	0.47uF	20%	50V
C127	1-130-021-00	MYLAR	0.0018uF	10%	50V
C128	1-130-021-00	MYLAR	0.0018uF	10%	50V
C129	1-130-479-00	MYLAR	0.0047uF	5%	50V
C130	1-130-479-00	MYLAR	0.0047uF	5%	50V
C131	1-136-154-00	FILM	0.012uF	5%	50V
C132	1-136-154-00	FILM	0.012uF	5%	50V
C133	1-136-158-00	FILM	0.027uF	5%	50V
C134	1-136-158-00	FILM	0.027uF	5%	50V
C135	1-136-163-00	FILM	0.068uF	5%	50V
C136	1-136-163-00	FILM	0.068uF	5%	50V
C138	1-162-286-31	CERAMIC	220PF	10%	50V
C139	1-124-903-11	ELECT	1uF	20%	50V
C151	1-162-282-31	CERAMIC	100PF	10%	50V
C152	1-162-282-31	CERAMIC	100PF	10%	50V
C153	1-162-282-31	CERAMIC	100PF	10%	50V
C155	1-162-286-31	CERAMIC (AEP, UK, G, IT)	220PF	10%	50V
C156	1-124-927-11	ELECT (AEP, UK, G, IT)	4.7uF	20%	100V
C157	1-130-480-00	MYLAR (AEP, UK, G, IT)	0.0056uF	5%	50V
C158	1-130-473-00	MYLAR (AEP, UK, G, IT)	0.0015uF	5%	50V
C159	1-124-925-11	ELECT (AEP, UK, G, IT)	2.2uF	20%	100V
C161	1-124-477-11	ELECT	47uF	20%	25V

Ref. No.	Part No.	Description			Remark
C162	1-161-379-00	CERAMIC	0.01uF	20%	25V
C163	1-161-379-00	CERAMIC	0.01uF	20%	25V
C164	1-124-907-11	ELECT	10uF	20%	50V
C170	1-124-907-11	ELECT	10uF	20%	50V
C171	1-124-925-11	ELECT	2.2uF	20%	100V
C172	1-162-286-31	CERAMIC	220PF	10%	50V
C173	1-136-168-00	FILM	0.18uF	5%	50V
C174	1-136-168-00	FILM	0.18uF	5%	50V
C175	1-124-902-00	ELECT	0.47uF	20%	50V
C176	1-124-902-00	ELECT	0.47uF	20%	50V
C177	1-130-021-00	MYLAR	0.0018uF	10%	50V
C178	1-130-021-00	MYLAR	0.0018uF	10%	50V
C179	1-130-479-00	MYLAR	0.0047uF	5%	50V
C180	1-130-479-00	MYLAR	0.0047uF	5%	50V
C181	1-136-154-00	FILM	0.012uF	5%	50V
C182	1-136-154-00	FILM	0.012uF	5%	50V
C183	1-136-158-00	FILM	0.027uF	5%	50V
C184	1-136-158-00	FILM	0.027uF	5%	50V
C185	1-136-163-00	FILM	0.068uF	5%	50V
C186	1-136-163-00	FILM	0.068uF	5%	50V
C188	1-162-286-31	CERAMIC	220PF	10%	50V
C201	1-162-282-31	CERAMIC (AEP, UK, G, IT)	100PF	10%	50V
C205	1-162-282-31	CERAMIC (AEP, UK, G, IT)	100PF	10%	50V
C494	1-161-379-00	CERAMIC (AEP, UK, G, IT)	0.01uF	20%	25V
C240	1-162-282-31	CERAMIC	100PF	10%	50V (G, IT)
C290	1-162-282-31	CERAMIC	100PF	10%	50V (G, IT)
C901	1-126-969-91	ELECT (US, Canadian)	220uF	20%	50V
C901	1-126-970-91	ELECT (EXCEPT US, Canadian)	330uF	20%	50V
C902	1-124-478-11	ELECT	100uF	20%	25V
C903	1-126-943-11	ELECT	2200uF	20%	25V
C904	1-126-943-11	ELECT	2200uF	20%	25V
C905	1-124-907-11	ELECT	10uF	20%	50V
C906	1-124-907-11	ELECT	10uF	20%	50V
C907	1-124-907-11	ELECT	10uF	20%	50V
C908	1-124-907-11	ELECT	10uF	20%	50V
C909	1-124-907-11	ELECT	10uF	20%	50V
C911	1-124-907-11	ELECT	10uF	20%	50V
C912	1-124-907-11	ELECT	10uF	20%	50V
C913	1-124-907-11	ELECT	10uF	20%	50V
C914	1-124-636-00	ELECT	3300uF	20%	25V
C915	1-124-636-00	ELECT	3300uF	20%	25V
C916	1-124-893-11	ELECT	2200uF	20%	10V
C917	1-124-893-11	ELECT	2200uF	20%	10V
C921	1-126-969-91	ELECT (US, Canadian)	220uF	20%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C921	1-126-970-91	ELECT (EXCEPT US, Canadian)	330uF	20%	50V
C922	1-126-101-11	ELECT	100uF	20%	16V
C923	1-124-907-11	ELECT	10uF	20%	50V
C924	1-124-927-11	ELECT	4.7uF	20%	100V
C926	1-126-176-11	ELECT	220uF	20%	10V
C928	1-124-477-11	ELECT	47uF	20%	25V
C930	1-164-159-11	CERAMIC	0.1uF		50V
C931	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CN101	1-566-859-11	SOCKET, CONNECTOR 15P (SYSTEM CONTROL 1)			
* CN103	1-569-624-11	SOCKET, CONNECTOR 17P (SYSTEM CONTROL 2)			
* CN104	1-568-832-11	SOCKET, CONNECTOR 13P			
* CN105	1-564-496-11	PIN, CONNECTOR 3P			
* CN106	1-564-506-11	PLUG, CONNECTOR 3P			
* CN108	1-568-834-11	SOCKET, CONNECTOR 15P			
* CN109	1-568-826-11	SOCKET, CONNECTOR 7P			
* CN110	1-695-649-11	CONNECTOR, BOARD TO BOARD 10P			
* CN111	1-568-455-11	PIN, CONNECTOR (PC BOARD) 10P			
		< DIODE >			
D901	8-719-200-82	DIODE	11ES2		
D902	8-719-200-82	DIODE	11ES2		
D903	8-719-200-82	DIODE	11ES2		
D904	8-719-200-82	DIODE	11ES2		
D905	8-719-200-82	DIODE	11ES2		
D906	8-719-200-82	DIODE	11ES2		
D907	8-719-910-25	DIODE	HZ12B2L		
D908	8-719-987-63	DIODE	1N4148M		
D909	8-719-200-82	DIODE	11ES2		
D910	8-719-200-82	DIODE	11ES2		
D911	8-719-200-82	DIODE	11ES2		
D912	8-719-200-82	DIODE	11ES2		
D913	8-719-987-63	DIODE	1N4148M		
D914	8-719-987-63	DIODE	1N4148M		
D916	8-719-987-63	DIODE	1N4148M		
D920	8-719-933-41	DIODE	HZS6C3L		
D921	8-719-933-54	DIODE	HZS9A2L		
		< FUSE >			
⚠F901	1-532-781-11	FUSE, MICRO 3.15A 125V (US, Canadian)			
⚠F901	1-532-844-21	LINK, IC 3.15A (EXCEPT US, Canadian)			
⚠F902	1-532-781-11	FUSE, MICRO 3.15A 125V (US, Canadian)			
⚠F902	1-532-844-21	LINK, IC 3.15A (EXCEPT US, Canadian)			
		< IC >			
IC101	8-759-805-14	IC	LC7822		
IC104	8-759-603-14	IC	M5229P		

Ref. No.	Part No.	Description			Remark
IC105	8-759-081-01	IC	NJU7305L		
IC106	8-759-603-14	IC	M5229P		
IC110	8-759-634-50	IC	M5218AL (AEP, UK, G, IT)		
IC901	8-759-602-66	IC	M5230L-A		
IC902	8-759-231-53	IC	TA7805S		
		< JACK >			
J101	1-565-320-61	JACK, PIN 6P (VIDEO/PHONO/DAT IN, DAT OUT)			
		< TRANSISTOR >			
Q107	8-729-900-61	TRANSISTOR	DTA114ES		
Q108	8-729-224-62	TRANSISTOR	2SK246-GR		
Q109	8-729-900-80	TRANSISTOR	DTC114ES		
Q901	8-729-209-15	TRANSISTOR	2SD2012		
Q902	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q903	8-729-900-80	TRANSISTOR	DTC114ES		
Q904	8-729-209-15	TRANSISTOR	2SD2012		
Q907	8-729-141-83	TRANSISTOR	2SB1094-LK		
Q908	8-729-209-15	TRANSISTOR	2SD2012		
Q909	8-729-141-83	TRANSISTOR	2SB1094-LK		
Q910	8-729-900-80	TRANSISTOR	DTC114ES		
Q911	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q912	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q913	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q929	8-729-900-61	TRANSISTOR	DTA114ES		
Q930	8-729-900-80	TRANSISTOR	DTC114ES		
		< RESISTOR >			
R101	1-249-437-11	CARBON	47K	5%	1/4W
R102	1-249-437-11	CARBON	47K	5%	1/4W
R103	1-249-432-11	CARBON	18K	5%	1/4W
R104	1-249-437-11	CARBON	47K	5%	1/4W
R105	1-249-417-11	CARBON (AEP, UK, G, IT)	1K	5%	1/4W F
R106	1-249-417-11	CARBON (AEP, UK, G, IT)	1K	5%	1/4W F
R107	1-247-897-11	CARBON (AEP, UK, G, IT)	560K	5%	1/4W
R108	1-249-437-11	CARBON (AEP, UK, G, IT)	47K	5%	1/4W
R110	1-249-430-11	CARBON (AEP, UK, G, IT)	12K	5%	1/4W
R111	1-247-883-00	CARBON	150K	5%	1/4W
R112	1-249-437-11	CARBON	47K	5%	1/4W
R113	1-249-423-11	CARBON	3.3K	5%	1/4W F
R114	1-249-423-11	CARBON	3.3K	5%	1/4W F
R115	1-249-437-11	CARBON	47K	5%	1/4W
R120	1-249-417-11	CARBON	1K	5%	1/4W F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
R121	1-249-417-11	CARBON	1K	5%	1/4W	F
R122	1-249-417-11	CARBON	1K	5%	1/4W	F
R125	1-247-887-00	CARBON	220K	5%	1/4W	
R126	1-247-887-00	CARBON	220K	5%	1/4W	
R127	1-249-417-11	CARBON	1K	5%	1/4W	F
R128	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R129	1-247-903-00	CARBON	1M	5%	1/4W	
R130	1-247-903-00	CARBON	1M	5%	1/4W	
R131	1-247-903-00	CARBON	1M	5%	1/4W	
R132	1-247-903-00	CARBON	1M	5%	1/4W	
R133	1-247-903-00	CARBON	1M	5%	1/4W	
R134	1-247-903-00	CARBON	1M	5%	1/4W	
R135	1-247-903-00	CARBON	1M	5%	1/4W	
R136	1-247-895-00	CARBON	470K	5%	1/4W	
R137	1-249-417-11	CARBON	1K	5%	1/4W	F
R151	1-249-437-11	CARBON	47K	5%	1/4W	
R152	1-249-437-11	CARBON	47K	5%	1/4W	
R153	1-249-432-11	CARBON	18K	5%	1/4W	
R154	1-249-437-11	CARBON	47K	5%	1/4W	
R155	1-249-417-11	CARBON (AEP, UK, G, IT)	1K	5%	1/4W	F
R156	1-249-417-11	CARBON (AEP, UK, G, IT)	1K	5%	1/4W	F
R157	1-247-897-11	CARBON (AEP, UK, G, IT)	560K	5%	1/4W	
R158	1-249-437-11	CARBON (AEP, UK, G, IT)	47K	5%	1/4W	
R160	1-249-430-11	CARBON (AEP, UK, G, IT)	12K	5%	1/4W	
R161	1-249-417-11	CARBON	1K	5%	1/4W	F
R162	1-249-417-11	CARBON	1K	5%	1/4W	F
R175	1-247-887-00	CARBON	220K	5%	1/4W	
R176	1-247-887-00	CARBON	220K	5%	1/4W	
R177	1-249-417-11	CARBON	1K	5%	1/4W	F
R178	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R179	1-247-903-00	CARBON	1M	5%	1/4W	
R180	1-247-903-00	CARBON	1M	5%	1/4W	
R181	1-247-903-00	CARBON	1M	5%	1/4W	
R182	1-247-903-00	CARBON	1M	5%	1/4W	
R183	1-247-903-00	CARBON	1M	5%	1/4W	
R184	1-247-903-00	CARBON	1M	5%	1/4W	
R185	1-247-903-00	CARBON	1M	5%	1/4W	
R186	1-247-895-00	CARBON	470K	5%	1/4W	
R187	1-249-417-11	CARBON	1K	5%	1/4W	F
R201	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R202	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R203	1-249-437-11	CARBON (AEP, UK, G, IT)	47K	5%	1/4W	
R204	1-249-437-11	CARBON (AEP, UK, G, IT)	47K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R205	1-249-432-11	CARBON	18K	5%	1/4W	
R207	1-249-425-11	CARBON (US, Canadian, E, AUS, EA, TR)	4.7K	5%	1/4W	F
R207	1-249-417-11	CARBON (AEP, UK, G, IT)	1K	5%	1/4W	F
R208	1-249-425-11	CARBON (US, Canadian, E, AUS, EA, TR)	4.7K	5%	1/4W	F
R208	1-249-417-11	CARBON (AEP, UK, G, IT)	1K	5%	1/4W	F
R209	1-249-437-11	CARBON	47K	5%	1/4W	
R210	1-249-437-11	CARBON	47K	5%	1/4W	
R211	1-249-437-11	CARBON	47K	5%	1/4W	
R212	1-249-437-11	CARBON	47K	5%	1/4W	
R213	1-249-437-11	CARBON	47K	5%	1/4W	
R214	1-249-437-11	CARBON	47K	5%	1/4W	
R221	1-249-417-11	CARBON	1K	5%	1/4W	F
R223	1-249-417-11	CARBON	1K	5%	1/4W	F
R255	1-249-432-11	CARBON	18K	5%	1/4W	
R902	1-249-413-11	CARBON	470	5%	1/4W	F
R903	1-247-903-00	CARBON	1M	5%	1/4W	
R904	1-249-413-11	CARBON	470	5%	1/4W	F
R905	1-249-431-11	CARBON	15K	5%	1/4W	
R906	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R907	1-249-431-11	CARBON	15K	5%	1/4W	
R908	1-249-431-11	CARBON	15K	5%	1/4W	
R911	1-249-429-11	CARBON	10K	5%	1/4W	
R919	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R920	1-212-857-00	FUSIBLE	10	5%	1/4W	F
⚠R921	1-212-974-00	FUSIBLE	47	5%	1/2W	F
R923	1-249-413-11	CARBON	470	5%	1/4W	F
R924	1-249-441-11	CARBON	100K	5%	1/4W	
R925	1-249-433-11	CARBON	22K	5%	1/4W	
R928	1-249-429-11	CARBON	10K	5%	1/4W	
R929	1-249-429-11	CARBON	10K	5%	1/4W	
R930	1-249-429-11	CARBON	10K	5%	1/4W	
R932	1-219-138-91	FUSIBLE	0.47	10%	1/4W	
R933	1-219-138-91	FUSIBLE	0.47	10%	1/4W	
R940	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R941	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R948	1-249-413-11	CARBON	470	5%	1/4W	F
R949	1-249-441-11	CARBON	100K	5%	1/4W	
R990	1-219-138-21	FUSIBLE	0.47	10%	1/4W	

< TEST PIN >

* TP101 1-565-835-11 SOCKET, CONNECTOR 3P

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The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MD-A MD-B

Ref.No.	Part No.	Description			Remark
*	A-2006-399-A	MD-A BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-234-00	ELECT	22uF	20%	16V
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C22	1-136-157-00	FILM	0.022uF	5%	50V
C23	1-124-234-00	ELECT	22uF	20%	16V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C31	1-124-234-00	ELECT	22uF	20%	16V
C32	1-124-234-00	ELECT	22uF	20%	16V
C71	1-124-499-11	ELECT, NONPOLAR R	1uF	20%	50V
		< CONNECTOR >			
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD			
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P			
* CNP32	1-580-772-11	PIN, CONNECTOR (PC BOARD) 4P			
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< IC >			
IC31A	8-759-106-02	IC uPC4570G2			
		< JUMPER RESISTOR >			
JW1	1-216-295-00	METAL CHIP	0	5%	1/10W
JW51	1-216-296-00	METAL CHIP	0	5%	1/8W
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W
		< TRANSISTOR >			
Q71A	8-729-602-36	TRANSISTOR 2SA1602-F			
		< RESISTOR >			
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
		< VARIABLE RESISTOR >			
RV11A	1-241-627-11	RES, ADJ, CARBON	1K		
RV21A	1-241-627-11	RES, ADJ, CARBON	1K		
RV71A	1-241-630-11	RES, ADJ, CARBON	10K		
RV72A	1-241-630-11	RES, ADJ, CARBON	10K		
**********					
*	A-2006-400-A	MD-B BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C11	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C12	1-136-157-00	FILM	0.022uF	5%	50V
C13	1-124-234-00	ELECT	22uF	20%	16V
C14	1-136-273-91	FILM	75PF	5%	630V
C15	1-164-080-11	CERAMIC	390PF	10%	50V
C17	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C18	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C21	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C22	1-136-157-00	FILM	0.022uF	5%	50V
C23	1-124-234-00	ELECT	22uF	20%	16V
C24	1-136-273-91	FILM	75PF	5%	630V
C25	1-164-080-11	CERAMIC	390PF	10%	50V
C27	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C28	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C31	1-124-234-00	ELECT	22uF	20%	16V
C32	1-124-234-00	ELECT	22uF	20%	16V
C33	1-124-234-00	ELECT	22uF	20%	16V
C51	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C52	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C53	1-163-022-00	CERAMIC CHIP	0.012uF	10%	50V
C54	1-136-559-11	FILM	0.0047uF	5%	630V
C56	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C57	1-164-346-11	CERAMIC CHIP	1uF		16V
C58	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50V
C71	1-124-499-11	ELECT, NONPOLAR R	1uF	20%	50V
		< CONNECTOR >			
* CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD			
* CNJ33	1-580-782-11	CONNECTOR, BOARD TO BOARD			
* CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P			
* CNP32	1-580-781-11	PIN, CONNECTOR (PC BOARD) 7P			
* CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			
		< DIODE >			
D31	8-719-016-74	DIODE 1SS352			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC31B	8-759-106-02	IC uPC4570G2			
		< JUMPER RESISTOR >			
JW1	1-216-296-00	METAL CHIP	0	5%	1/8W
JW2	1-216-295-00	METAL CHIP	0	5%	1/10W
JW3	1-216-295-00	METAL CHIP	0	5%	1/10W
JW4	1-216-295-00	METAL CHIP	0	5%	1/10W
JW5	1-216-295-00	METAL CHIP	0	5%	1/10W
JW6	1-216-295-00	METAL CHIP	0	5%	1/10W
JW7	1-216-295-00	METAL CHIP	0	5%	1/10W
JW52	1-216-296-00	METAL CHIP	0	5%	1/8W
JW53	1-216-296-00	METAL CHIP	0	5%	1/8W
JW54	1-216-296-00	METAL CHIP	0	5%	1/8W
JW55	1-216-296-00	METAL CHIP	0	5%	1/8W
JW56	1-216-296-00	METAL CHIP	0	5%	1/8W
JW57	1-216-296-00	METAL CHIP	0	5%	1/8W
JW58	1-216-296-00	METAL CHIP	0	5%	1/8W
JW59	1-216-296-00	METAL CHIP	0	5%	1/8W
JW60	1-216-296-00	METAL CHIP	0	5%	1/8W
JW61	1-216-296-00	METAL CHIP	0	5%	1/8W
		< COIL >			
L11	1-410-780-11	INDUCTOR	27mH		
L21	1-410-780-11	INDUCTOR	27mH		
		< TRANSISTOR >			
Q51	8-729-808-01	TRANSISTOR	2SD1622-S		
Q52	8-729-808-01	TRANSISTOR	2SD1622-S		
Q53	8-729-808-01	TRANSISTOR	2SD1622-S		
Q71B	8-729-602-36	TRANSISTOR	2SA1602-F		
		< RESISTOR >			
R11	1-216-099-00	METAL CHIP	120K	5%	1/10W
R12	1-216-025-00	METAL CHIP	100	5%	1/10W
R13	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
⚠R15	1-249-430-11	CARBON	12K	5%	1/4W F
R21	1-216-099-00	METAL CHIP	120K	5%	1/10W
R22	1-216-025-00	METAL CHIP	100	5%	1/10W
R23	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R24	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
⚠R25	1-249-430-11	CARBON	12K	5%	1/4W F
R31	1-216-033-00	METAL CHIP	220	5%	1/10W
R32	1-216-033-00	METAL CHIP	220	5%	1/10W
⚠R41	1-249-393-11	CARBON	10	5%	1/4W F
⚠R42	1-249-393-11	CARBON	10	5%	1/4W F
R51	1-216-075-00	METAL CHIP	12K	5%	1/10W
R52	1-216-075-00	METAL CHIP	12K	5%	1/10W
R53	1-216-073-00	METAL CHIP	10K	5%	1/10W
R54	1-216-309-00	METAL CHIP	5.6	5%	1/10W
R55	1-216-309-00	METAL CHIP	5.6	5%	1/10W
R56	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R71	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W
R74	1-216-089-00	METAL CHIP	47K	5%	1/10W
		< VARIABLE RESISTOR >			
RV11B	1-241-627-11	RES, ADJ, CARBON 1K			
RV12B	1-238-551-11	RES, ADJ, CARBON 220K			
RV21	1-241-627-11	RES, ADJ, CARBON 1K			
RV22	1-238-551-11	RES, ADJ, CARBON 220K			
RV71B	1-241-630-11	RES, ADJ, CARBON 10K			
RV72B	1-241-630-11	RES, ADJ, CARBON 10K			
		< RELAY >			
RY31	1-515-726-11	RELAY			
		< TRANSFORMER >			
T51	1-406-419-11	COIL, BIAS OSCILLATION			

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*	A-4356-158-A	POWER AMP BOARD, COMPLETE (G, IT)
*	A-4356-189-A	POWER AMP BOARD, COMPLETE (E, EA, TR)
*	A-4356-196-A	POWER AMP BOARD, COMPLETE (US, Canadian)
*	A-4356-200-A	POWER AMP BOARD, COMPLETE (AEP, UK, AUS)

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		< CAPACITOR >			
C702	1-126-176-11	ELECT	220uF	20%	10V
C704	1-161-379-00	CERAMIC	0.01uF	20%	25V
C706	1-124-927-11	ELECT	4.7uF	20%	100V
C707	1-124-478-11	ELECT	100uF	20%	25V
C801	1-124-443-00	ELECT	100uF	20%	10V
C802	1-162-290-31	CERAMIC	470PF	10%	50V
C803	1-124-122-11	ELECT	100uF	20%	50V
C804	1-162-282-31	CERAMIC	100PF	10%	50V
C806	1-124-910-11	ELECT	47uF	20%	50V
C807	1-124-122-11	ELECT	100uF	20%	50V
C809	1-126-233-11	ELECT	22uF	20%	50V
C810	1-136-165-00	FILM	0.1uF	5%	50V
C811	1-136-165-00	FILM	0.1uF	5%	50V
C812	1-136-165-00	FILM	0.1uF	5%	50V
C814	1-161-379-00	CERAMIC	0.01uF	20%	25V
C816	1-126-233-11	ELECT	22uF	20%	50V
C818	1-126-233-11	ELECT	22uF	20%	50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

POWER AMP | POWER

Ref. No.	Part No.	Description			Remark
C819	1-124-903-11	ELECT	1uF	20%	50V
C851	1-124-443-00	ELECT	100uF	20%	10V
C852	1-162-290-31	CERAMIC	470PF	10%	50V
C853	1-124-122-11	ELECT	100uF	20%	50V
C854	1-162-282-31	CERAMIC	100PF	10%	50V
C856	1-124-910-11	ELECT	47uF	20%	50V
C860	1-136-165-00	FILM	0.1uF	5%	50V
C863	1-136-165-00	FILM	0.1uF	5%	50V
C866	1-126-233-11	ELECT	22uF	20%	50V
		< CONNECTOR >			
* CN801	1-564-508-11	PLUG, CONNECTOR 5P			
* CN802	1-564-507-11	PLUG, CONNECTOR 4P			
CN803	1-564-507-11	PLUG, CONNECTOR 4P			
* CN804	1-564-509-11	PLUG, CONNECTOR 6P			
		< DIODE >			
D801	8-719-987-63	DIODE	1N4148M		
D802	8-719-987-63	DIODE	1N4148M		
D851	8-719-987-63	DIODE	1N4148M		
		< IC >			
IC701	8-759-111-68	IC	uPC1237HA		
IC801	8-749-920-09	IC	STK-4152MK2K		
		< COIL >			
* L801	1-420-872-00	COIL, AIR CORE			
* L851	1-420-872-00	COIL, AIR CORE			
		< TRANSISTOR >			
Q701	8-729-119-76	TRANSISTOR	2SA1175-HFE		
Q801	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
Q851	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA		
		< RESISTOR >			
R701	1-249-433-11	CARBON	22K	5%	1/4W
R702	1-249-441-11	CARBON	100K	5%	1/4W
R703	1-249-433-11	CARBON	22K	5%	1/4W
R704	1-249-433-11	CARBON	22K	5%	1/4W
R705	1-249-429-11	CARBON	10K	5%	1/4W
R712	1-249-437-11	CARBON	47K	5%	1/4W
⚠R800	1-219-138-91	FUSIBLE	0.47	10%	1/4W F
R801	1-249-414-11	CARBON	560	5%	1/4W F
R802	1-249-438-11	CARBON	56K	5%	1/4W
R803	1-249-414-11	CARBON	560	5%	1/4W F
R804	1-249-438-11	CARBON	56K	5%	1/4W
R805	1-249-421-11	CARBON	2.2K	5%	1/4W F
R806	1-249-421-11	CARBON	2.2K	5%	1/4W F
⚠R807	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R808	1-212-881-11	FUSIBLE	100	5%	1/4W F
⚠R809	1-217-151-00	RES, METAL PLATE	0.22		
R810	1-247-752-11	CARBON	1K	5%	1/2W
R811	1-247-752-11	CARBON	1K	5%	1/2W
R812	1-247-727-11	CARBON	10	5%	1/2W
R813	1-249-417-11	CARBON	1K	5%	1/4W F
R814	1-249-431-11	CARBON	15K	5%	1/4W
R815	1-249-441-11	CARBON	100K	5%	1/4W
R816	1-249-438-11	CARBON	56K	5%	1/4W
R818	1-249-441-11	CARBON	100K	5%	1/4W
R819	1-249-441-11	CARBON	100K	5%	1/4W
R820	1-249-435-11	CARBON	33K	5%	1/4W
R821	1-249-429-11	CARBON	10K	5%	1/4W
R822	1-247-903-00	CARBON	1M	5%	1/4W
R823	1-249-431-11	CARBON	15K	5%	1/4W
R824	1-249-429-11	CARBON	10K	5%	1/4W
R825	1-247-883-00	CARBON	150K	5%	1/4W
R851	1-249-414-11	CARBON	560	5%	1/4W F
R852	1-249-438-11	CARBON	56K	5%	1/4W
R853	1-249-414-11	CARBON	560	5%	1/4W F
R854	1-249-438-11	CARBON	56K	5%	1/4W
R855	1-249-421-11	CARBON	2.2K	5%	1/4W F
R856	1-249-421-11	CARBON	2.2K	5%	1/4W F
⚠R859	1-217-151-00	RES, METAL PLATE	0.22		
R862	1-247-727-11	CARBON	10	5%	1/2W
R863	1-249-417-11	CARBON	1K	5%	1/4W F
R864	1-249-431-11	CARBON	15K	5%	1/4W
R865	1-249-441-11	CARBON	100K	5%	1/4W
R866	1-249-437-11	CARBON	47K	5%	1/4W
⚠R876	1-212-881-11	FUSIBLE	100	5%	1/4W F

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*	A-4356-156-A	POWER BOARD, COMPLETE (G, IT)
*	A-4356-186-A	POWER BOARD, COMPLETE (E, TR)
*	A-4356-187-A	POWER BOARD, COMPLETE (EA)
*	A-4356-194-A	POWER BOARD, COMPLETE (US, Canadian)
*	A-4356-197-A	POWER BOARD, COMPLETE (AEP, AUS)
*	A-4356-198-A	POWER BOARD, COMPLETE (UK)

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*	1-533-213-31	HOLDER, FUSE

< CAPACITOR >

C918	1-124-628-11	ELECT	220uF	20%	100V
C919	1-124-628-11	ELECT	220uF	20%	100V
C920	1-123-605-00	ELECT	100uF	20%	100V
C925	1-164-159-11	CERAMIC	0.1uF		50V
C932	1-164-159-11	CERAMIC (US, Canadian)	0.1uF		50V
C933	1-123-605-00	ELECT	100uF	20%	100V
C934	1-124-907-11	ELECT	10uF	20%	50V

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Ref. No.	Part No.	Description			Remark
C935	1-124-907-11	ELECT	10uF	20%	50V
C936	1-164-159-11	CERAMIC	0.1uF		50V
C937	1-124-907-11	ELECT (US, Canadian)	10uF	20%	50V
C951	1-136-153-00	FILM	0.01uF	5%	50V (G, IT)
C952	1-136-153-00	FILM	0.01uF	5%	50V (G, IT)
C953	1-126-224-11	ELECT	4700uF	20%	42V
C954	1-126-224-11	ELECT	4700uF	20%	42V
C955	1-136-171-00	FILM	0.33uF	5%	50V
C956	1-136-171-00	FILM	0.33uF	5%	50V
		< CONNECTOR >			
* CN951	1-564-321-00	PIN, CONNECTOR 2P (EXCEPT, EA, TR)			
CN951	1-568-106-11	PIN, CONNECTOR 4P (E, EA, TR)			
* CN952	1-564-505-11	PLUG, CONNECTOR 2P (US, Canadian)			
* CN953	1-568-828-11	SOCKET, CONNECTOR 9P			
* CN954	1-564-510-11	PLUG, CONNECTOR 7P			
* CN956	1-564-337-00	PIN, CONNECTOR 3P			
		< DIODE >			
D918	8-719-002-73	DIODE UZL-36M			
D919	8-719-934-22	DIODE HZS30-2L (EXCEPT Canadian)			
D919	8-719-934-18	DIODE HZS27-2L (Canadian)			
D931	8-719-987-63	DIODE 1N4148M (US, Canadian)			
D932	8-719-987-63	DIODE 1N4148M (US, Canadian)			
D940	8-719-200-82	DIODE 11ES2			
D941	8-719-200-82	DIODE 11ES2			
D942	8-719-200-82	DIODE 11ES2			
D943	8-719-200-82	DIODE 11ES2			
D944	8-719-014-80	DIODE UZP-6.2BC			
D945	8-719-014-80	DIODE UZP-6.2BC			
D951	8-719-987-63	DIODE 1N4148M			
D952	8-719-987-63	DIODE 1N4148M			
D953	8-719-302-38	DIODE RBV-602-01			
D954	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC910	8-759-987-16	IC LM393P (US, Canadian)			
		< JACK >			
⚠J951	1-526-930-11	INLET, AC (~ AC IN) (US, Canadian, E, TR)			
⚠J951	1-526-931-11	INLET, AC (~ AC IN) (AEP, UK, G, IT, AUS, EA)			
J952	1-537-151-11	TERMINAL BOARD (SPEAKER)			
* J953	1-565-352-91	JACK, PIN 2P (SURROUND SPEAKER) (UK)			
		< COIL >			
⚠L901	1-424-485-11	FILTER, LINE (AEP, UK, G, IT, AUS)			

Ref. No.	Part No.	Description				Remark
		< TRANSISTOR >				
Q915	8-729-188-23	TRANSISTOR 2SD882-P				
Q916	8-729-177-22	TRANSISTOR 2SB772-Q				
Q952	8-729-801-84	TRANSISTOR 2SB1013-4 (US, Canadian)				
Q953	8-729-111-29	TRANSISTOR 2SD1616A-K				
		< RESISTOR >				
R901	1-202-725-00	SOLID (US, Canadian)	3.3M	10%	1/2W	
⚠R912	1-215-868-00	METAL OXIDE	680	5%	1W	F
⚠R913	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R914	1-249-429-11	CARBON	10K	5%	1/4W	
R915	1-249-429-11	CARBON	10K	5%	1/4W	
R916	1-249-434-11	CARBON	27K	5%	1/4W	
R917	1-247-895-00	CARBON	470K	5%	1/4W	
R918	1-247-895-00	CARBON	470K	5%	1/4W	
R931	1-249-429-11	CARBON (US, Canadian)	10K	5%	1/4W	
R934	1-249-441-11	CARBON (US, Canadian)	100K	5%	1/4W	
R935	1-249-429-11	CARBON (US, Canadian)	10K	5%	1/4W	
R936	1-249-441-11	CARBON (US, Canadian)	100K	5%	1/4W	
R937	1-249-429-11	CARBON (US, Canadian)	10K	5%	1/4W	
R951	1-247-727-11	CARBON (G, IT)	10	5%	1/2W	F
R952	1-247-727-11	CARBON (G, IT)	10	5%	1/2W	F
⚠R953	1-247-749-11	CARBON	560	5%	1/2W	F
R954	1-249-441-11	CARBON	100K	5%	1/4W	
R955	1-249-429-11	CARBON	10K	5%	1/4W	
R956	1-249-429-11	CARBON	10K	5%	1/4W	
R957	1-249-429-11	CARBON (US, Canadian)	10K	5%	1/4W	
R958	1-249-429-11	CARBON (US, Canadian)	10K	5%	1/4W	
⚠R991	1-219-138-91	FUSIBLE	0.47	10%	1/4W	F
		< RELAY >				
RY901	1-515-790-11	RELAY				
		< SWITCH >				
⚠S951	1-692-328-11	SELECTOR, VOLTAGE (VOLTAGE SELECTOR) (E, EA, TR)				

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SW-A SW-B TA PANEL

Ref.No.	Part No.	Description				Remark
*	1-634-841-14	SW-A BOARD				
		**********				
	3-343-419-01	HOLDER (S SENSER A)				
		< CONNECTOR >				
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P				
		< IC >				
IC81A	8-719-710-03	DIODE NJL5165K-B				
		< RESISTOR >				
R84	1-249-417-11	CARBON	1K	5%	1/4W	F
R85	1-249-408-11	CARBON	180	5%	1/4W	F
		< SWITCH >				
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP DET)				
S82	1-571-281-21	SWITCH, LEAF (CrO2 DET)				
S86	1-571-281-21	SWITCH, LEAF (HALF DET)				
**********						
*	1-634-841-14	SW-B BOARD				
		**********				
	3-343-419-01	HOLDER (S SENSER A)				
		< CONNECTOR >				
* CNP81	1-568-852-11	SOCKET, CONNECTOR 9P				
		< IC >				
IC81B	8-719-710-03	DIODE NJL5165K-B				
		< RESISTOR >				
R81	1-249-414-11	CARBON	560	5%	1/4W	F
R82	1-247-818-11	CARBON	300	5%	1/4W	
R83	1-247-834-11	CARBON	1.3K	5%	1/4W	
R84	1-249-417-11	CARBON	1K	5%	1/4W	F
R85	1-249-408-11	CARBON	180	5%	1/4W	F
		< SWITCH >				
S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP DET)				
S82	1-571-281-21	SWITCH, LEAF (CrO2 DET)				
S83	1-571-281-21	SWITCH, LEAF (METAL DET)				
S84	1-571-281-21	SWITCH, LEAF (ERASE PROOF (SIDE A))				
S85	1-571-281-21	SWITCH, LEAF (ERASE PROOF (SIDE B))				
S86	1-571-281-21	SWITCH, LEAF (HALF DET)				
**********						

Ref.No.	Part No.	Description				Remark
*	A-4356-160-A	TA PANEL BOARD, COMPLETE (G, IT)				
*	A-4356-191-A	TA PANEL BOARD, COMPLETE (E, EA, TR)				
*	A-4356-202-A	TA PANEL BOARD, COMPLETE (US, Canadian)				
*	A-4356-206-A	TA PANEL BOARD, COMPLETE (AEP, UK, AUS)				
		**********				
*	4-921-941-01	CUSHION (FL)				
*	4-953-602-01	HOLDER (FL TUBE)				
		< CAPACITOR >				
C522	1-164-159-11	CERAMIC	0.1uF		50V	
C523	1-164-159-11	CERAMIC	0.1uF		50V	
		< CONNECTOR >				
* CN521	1-568-858-11	SOCKET, CONNECTOR 15P				
		< DIODE >				
D520	8-719-301-37	LED SEL2210S-CD (DIRECT)				
D521	8-719-301-37	LED SEL2210S-CD (TUNER/PHONO)				
D522	8-719-301-37	LED SEL2210S-CD (CD/TUNER)				
D523	8-719-301-37	LED SEL2210S-CD (DAT/CD)				
D524	8-719-301-37	LED SEL2210S-CD (TAPE/DAT)				
D525	8-719-301-37	LED SEL2210S-CD (VIDEO/TAPE)				
D526	8-719-301-37	LED SEL2210S-CD (ON STANDBY)				
		< FLUORESCENT INDICATOR >				
FL521	1-519-735-11	INDICATOR TUBE, FLUORESCENT				
		< IC >				
IC551	8-759-075-35	IC TD62C950RF				
		< RESISTOR >				
R520	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R521	1-249-413-11	CARBON	470	5%	1/4W	F
R522	1-249-415-11	CARBON	680	5%	1/4W	F
R523	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R524	1-249-413-11	CARBON	470	5%	1/4W	F
R525	1-249-415-11	CARBON	680	5%	1/4W	F
R526	1-249-417-11	CARBON	1K	5%	1/4W	F
R527	1-249-414-11	CARBON	560	5%	1/4W	F
R528	1-249-414-11	CARBON	560	5%	1/4W	F
R550	1-249-417-11	CARBON	1K	5%	1/4W	F
R551	1-249-417-11	CARBON	1K	5%	1/4W	F
R552	1-249-417-11	CARBON	1K	5%	1/4W	F
R553	1-249-417-11	CARBON	1K	5%	1/4W	F
R554	1-249-437-11	CARBON	47K	5%	1/4W	

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
S520	1-554-303-21	SWITCH, TACTILE (SYSTEM POWER)			
S521	1-554-303-21	SWITCH, TACTILE (DISPLAY)			
S522	1-554-303-21	SWITCH, TACTILE (DIRECT)			
S523	1-554-303-21	SWITCH, TACTILE (FUNCTION)			
S524	1-554-303-21	SWITCH, TACTILE (+)			
S525	1-554-303-21	SWITCH, TACTILE (PRESET)			
S526	1-554-303-21	SWITCH, TACTILE (-)			
**********					
*	A-4356-164-A	TC MAIN BOARD, COMPLETE (G, IT)			
*	A-4356-210-A	TC MAIN BOARD, COMPLETE (EXCEPT G, IT)			
		**********			
		< CAPACITOR >			
C201	1-136-158-00	FILM	0.027uF	5%	50V
C202	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C203	1-124-254-00	ELECT	0.68uF	20%	50V
C204	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C205	1-124-925-11	ELECT	2.2uF	20%	100V
C206	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C207	1-126-157-11	ELECT	10uF	20%	16V
C208	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C209	1-126-301-11	ELECT	1uF	20%	50V
C301	1-136-158-00	FILM	0.027uF	5%	50V
C302	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C303	1-124-254-00	ELECT	0.68uF	20%	50V
C304	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C305	1-124-925-11	ELECT	2.2uF	20%	100V
C306	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C307	1-126-157-11	ELECT	10uF	20%	16V
C308	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C309	1-126-301-11	ELECT	1uF	20%	50V
C401	1-124-443-00	ELECT	100uF	20%	10V
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C403	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C404	1-124-473-11	ELECT	1000uF	20%	10V
C405	1-124-443-00	ELECT	100uF	20%	10V
C407	1-124-925-11	ELECT	2.2uF	20%	100V
C408	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C409	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C410	1-164-222-11	CERAMIC CHIP	0.22uF		25V
C411	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C412	1-126-301-11	ELECT	1uF	20%	50V
C413	1-124-443-00	ELECT	100uF	20%	10V
C414	1-124-443-00	ELECT	100uF	20%	10V
C415	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C416	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C417	1-124-907-11	ELECT	10uF	20%	50V
C419	1-124-473-11	ELECT	1000uF	20%	10V
C420	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C421	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C422	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C424	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C425	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C426	1-124-478-11	ELECT	100uF	20%	25V
C427	1-124-478-11	ELECT	100uF	20%	25V
C428	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C440	1-124-473-11	ELECT	1000uF	20%	10V
C4001	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C4002	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C4003	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C6500	1-124-907-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN601	1-573-101-11	SOCKET, CONNECTOR 9P			
CN602	1-580-783-11	CONNECTOR, BOARD TO BOARD			
CN603	1-573-101-11	SOCKET, CONNECTOR 9P			
CN604	1-580-783-11	CONNECTOR, BOARD TO BOARD			
* CN605	1-580-476-11	SOCKET, CONNECTOR 15P			
CN607	1-580-783-11	CONNECTOR, BOARD TO BOARD			
* CN609	1-568-856-11	SOCKET, CONNECTOR 13P			
		< DIODE >			
D401	8-719-210-33	DIODE	EC10DS2		
D404	8-719-021-41	DIODE	UZM5.6X		
D405	8-719-021-77	DIODE	UZM8.2Z		
D407	8-719-801-78	DIODE	1SS184		
D410	8-719-801-78	DIODE	1SS184		
D411	8-719-801-78	DIODE	1SS184		
D412	8-719-801-78	DIODE	1SS184		
D416	8-719-801-78	DIODE	1SS184		
D4001	8-719-800-76	DIODE	1SS226		
		< IC >			
IC201	8-759-516-43	IC	CD4053BCM		
IC202	8-752-050-13	IC	CXA1101M		
IC203	8-759-996-43	IC	RC4558PS		
IC204	8-759-516-47	IC	CD4066BCM		
IC205	8-752-055-60	IC	CXA1578M		
IC401	8-759-076-36	IC	M50964-256FP		
IC402	8-759-207-05	IC	TA7272P		
IC403	8-759-996-43	IC	RC4558PS		
IC404	8-759-925-85	IC	SN74HC32ANS		
IC405	8-759-520-90	IC	PST572E		
IC406	8-759-516-41	IC	CD4052BCM		

TC MAIN

Ref. No.	Part No.	Description			Remark
		< COIL >			
L403	1-410-482-31	INDUCTOR	100uH		
L404	1-410-482-31	INDUCTOR	100uH		
		< TRANSISTOR >			
Q201	8-729-207-56	TRANSISTOR	RN1402		
Q202	8-729-602-21	TRANSISTOR	2SC4154-F		
Q301	8-729-207-56	TRANSISTOR	RN1402		
Q302	8-729-602-21	TRANSISTOR	2SC4154-F		
Q401	8-729-804-41	TRANSISTOR	2SB1122-S		
Q402	8-729-804-41	TRANSISTOR	2SB1122-S		
Q403	8-729-207-68	TRANSISTOR	RN2402		
Q404	8-729-207-56	TRANSISTOR	RN1402		
Q405	8-729-207-68	TRANSISTOR	RN2402		
Q407	8-729-207-68	TRANSISTOR	RN2402		
Q408	8-729-207-56	TRANSISTOR	RN1402		
Q409	8-729-207-68	TRANSISTOR	RN2402		
Q410	8-729-207-70	TRANSISTOR	RN2404		
Q411	8-729-207-56	TRANSISTOR	RN1402		
Q412	8-729-207-68	TRANSISTOR	RN2402		
Q414	8-729-207-68	TRANSISTOR	RN2402		
Q415	8-729-207-68	TRANSISTOR	RN2402		
		< RESISTOR >			
R201	1-216-089-00	METAL CHIP	47K	5%	1/10W
R202	1-216-089-00	METAL CHIP	47K	5%	1/10W
R203	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R204	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R205	1-216-105-00	METAL CHIP	220K	5%	1/10W
R206	1-216-025-00	METAL CHIP	100	5%	1/10W
R207	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R208	1-216-089-00	METAL CHIP	47K	5%	1/10W
R209	1-216-097-00	METAL CHIP	100K	5%	1/10W
R210	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R211	1-216-025-00	METAL CHIP	100	5%	1/10W
R212	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R213	1-216-081-00	METAL CHIP	22K	5%	1/10W
R214	1-216-089-00	METAL CHIP	47K	5%	1/10W
R215	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R220	1-216-049-00	METAL CHIP	1K	5%	1/10W
R301	1-216-089-00	METAL CHIP	47K	5%	1/10W
R302	1-216-089-00	METAL CHIP	47K	5%	1/10W
R303	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R304	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R305	1-216-105-00	METAL CHIP	220K	5%	1/10W
R306	1-216-025-00	METAL CHIP	100	5%	1/10W
R307	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R308	1-216-089-00	METAL CHIP	47K	5%	1/10W
R309	1-216-097-00	METAL CHIP	100K	5%	1/10W
R310	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R311	1-216-025-00	METAL CHIP	100	5%	1/10W
R312	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R313	1-216-081-00	METAL CHIP	22K	5%	1/10W
R314	1-216-089-00	METAL CHIP	47K	5%	1/10W
R315	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R316	1-216-117-00	METAL CHIP	680K	5%	1/10W
R317	1-216-117-00	METAL CHIP	680K	5%	1/10W
R320	1-216-049-00	METAL CHIP	1K	5%	1/10W
R400	1-216-037-00	METAL CHIP	330	5%	1/10W
R401	1-216-037-00	METAL CHIP	330	5%	1/10W
R402	1-216-037-00	METAL CHIP	330	5%	1/10W
R403	1-216-037-00	METAL CHIP	330	5%	1/10W
R404	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R405	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R406	1-216-113-00	METAL CHIP	470K	5%	1/10W
R407	1-216-113-00	METAL CHIP	470K	5%	1/10W
R408	1-216-073-00	METAL CHIP	10K	5%	1/10W
R409	1-216-073-00	METAL CHIP	10K	5%	1/10W
R410	1-216-045-00	METAL CHIP	680	5%	1/10W
R411	1-216-037-00	METAL CHIP	330	5%	1/10W
R412	1-216-073-00	METAL CHIP	10K	5%	1/10W
R413	1-216-045-00	METAL CHIP	680	5%	1/10W
R414	1-216-073-00	METAL CHIP	10K	5%	1/10W
R415	1-216-083-00	METAL CHIP	27K	5%	1/10W
R416	1-216-073-00	METAL CHIP	10K	5%	1/10W
R417	1-216-083-00	METAL CHIP	27K	5%	1/10W
R418	1-216-085-00	METAL CHIP	33K	5%	1/10W
R419	1-216-084-00	METAL CHIP	30K	5%	1/10W
R420	1-216-089-00	METAL CHIP	47K	5%	1/10W
R421	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R422	1-216-090-00	METAL CHIP	51K	5%	1/10W
R423	1-216-080-00	METAL CHIP	20K	5%	1/10W
R424	1-216-090-00	METAL CHIP	51K	5%	1/10W
R425	1-216-025-00	METAL CHIP	100	5%	1/10W
R426	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R427	1-216-085-00	METAL CHIP	33K	5%	1/10W
R428	1-216-089-00	METAL CHIP	47K	5%	1/10W
R429	1-216-090-00	METAL CHIP	51K	5%	1/10W
R430	1-216-084-00	METAL CHIP	30K	5%	1/10W
R431	1-216-080-00	METAL CHIP	20K	5%	1/10W
R432	1-216-090-00	METAL CHIP	51K	5%	1/10W
R433	1-216-025-00	METAL CHIP	100	5%	1/10W
R434	1-216-121-00	METAL CHIP	1M	5%	1/10W
R435	1-216-081-00	METAL CHIP	22K	5%	1/10W
R436	1-216-089-00	METAL CHIP	47K	5%	1/10W
R437	1-216-073-00	METAL CHIP	10K	5%	1/10W
R438	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref.No.	Part No.	Description			Remark
R440	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R441	1-216-081-00	METAL CHIP	22K	5%	1/10W
R444	1-216-073-00	METAL CHIP	10K	5%	1/10W
R445	1-216-073-00	METAL CHIP	10K	5%	1/10W
R446	1-216-097-00	METAL CHIP	100K	5%	1/10W
R447	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R448	1-216-089-00	METAL CHIP	47K	5%	1/10W
R449	1-216-105-00	METAL CHIP	220K	5%	1/10W
R450	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R451	1-216-097-00	METAL CHIP	100K	5%	1/10W
R452	1-216-097-00	METAL CHIP	100K	5%	1/10W
R453	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R454	1-216-097-00	METAL CHIP	100K	5%	1/10W
R455	1-216-089-00	METAL CHIP	47K	5%	1/10W
R456	1-216-089-00	METAL CHIP	47K	5%	1/10W
R457	1-216-089-00	METAL CHIP	47K	5%	1/10W
R458	1-216-088-00	METAL CHIP	43K	5%	1/10W
R459	1-216-089-00	METAL CHIP	47K	5%	1/10W
R460	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R461	1-216-081-00	METAL CHIP	22K	5%	1/10W
R462	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R463	1-216-073-00	METAL CHIP	10K	5%	1/10W
R464	1-216-073-00	METAL CHIP	10K	5%	1/10W
R466	1-216-025-00	METAL CHIP	100	5%	1/10W
R467	1-216-025-00	METAL CHIP	100	5%	1/10W
R470	1-216-073-00	METAL CHIP	10K	5%	1/10W
R471	1-216-073-00	METAL CHIP	10K	5%	1/10W
R472	1-216-073-00	METAL CHIP	10K	5%	1/10W
R473	1-216-073-00	METAL CHIP	10K	5%	1/10W
R474	1-216-073-00	METAL CHIP	10K	5%	1/10W
R475	1-216-081-00	METAL CHIP	22K	5%	1/10W
R480	1-216-073-00	METAL CHIP	10K	5%	1/10W
R481	1-216-295-00	METAL CHIP	0	5%	1/10W
R482	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R483	1-216-072-00	METAL CHIP	9.1K	5%	1/10W
R484	1-216-081-00	METAL CHIP	22K	5%	1/10W
R2001	1-216-073-00	METAL CHIP	10K	5%	1/10W
R4000	1-216-049-00	METAL CHIP	1K	5%	1/10W
R4001	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R4002	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R4003	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R4004	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R4005	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R4006	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R4007	1-216-298-00	METAL CHIP	2.2	5%	1/10W
R4008	1-216-298-00	METAL CHIP	2.2	5%	1/10W
⚠R4010	1-212-849-00	FUSIBLE	4.7	5%	1/4W F
R4421	1-216-025-00	METAL CHIP	100	5%	1/10W

Ref.No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV201	1-241-136-11	RES, ADJ, CARBON 10K	
RV301	1-241-136-11	RES, ADJ, CARBON 10K	
		< TEST PIN >	
* TP101	1-564-518-11	PLUG, CONNECTOR 3P	
* TP201	1-564-518-11	PLUG, CONNECTOR 3P	
* TP401	1-564-517-11	PLUG, CONNECTOR 2P	
		< VIBRATOR >	
X401	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	
**********			
*	A-4356-163-A	TC SW BOARD, COMPLETE (G, IT)	
*	A-4356-209-A	TC SW BOARD, COMPLETE (EXCEPT G, IT)	
		**********	
		< CONNECTOR >	
* CN351	1-580-476-11	SOCKET, CONNECTOR 15P	
		< DIODE >	
D351	8-719-310-24	LED SEL4525C-C (DECK A: ◁)	
D352	8-719-310-24	LED SEL4525C-C (DECK A: ▷)	
D353	8-719-312-37	LED SEL4225C-C (HIGH SPEED)	
D354	8-719-312-37	LED SEL4225C-C (NORMAL SPEED)	
D355	8-719-312-37	LED SEL4225C-C (CD SYNCHRO)	
D356	8-719-310-04	LED SEL4925A-D (DECK B: PAUSE ❚❚)	
D357	8-719-310-24	LED SEL4525C-C (DECK B: ◁)	
D358	8-719-310-24	LED SEL4525C-C (DECK B: ▷)	
D359	8-719-312-37	LED SEL4225C-C (DECK B: REC ●)	
		< RESISTOR >	
R351	1-216-029-00	METAL CHIP 150 5% 1/10W	
R352	1-216-033-00	METAL CHIP 220 5% 1/10W	
R353	1-216-037-00	METAL CHIP 330 5% 1/10W	
R354	1-216-041-00	METAL CHIP 470 5% 1/10W	
R355	1-216-045-00	METAL CHIP 680 5% 1/10W	
R356	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R357	1-216-055-00	METAL CHIP 1.8K 5% 1/10W	
R358	1-216-063-00	METAL CHIP 3.9K 5% 1/10W	
R359	1-216-029-00	METAL CHIP 150 5% 1/10W	
R360	1-216-033-00	METAL CHIP 220 5% 1/10W	
R361	1-216-037-00	METAL CHIP 330 5% 1/10W	
R362	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
R364	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R365	1-216-067-00	METAL CHIP 5.6K 5% 1/10W	
R366	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R369	1-216-295-00	METAL CHIP 0 5% 1/10W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

TC SW TRANSFORMER

Ref. No.	Part No.	Description			Remark
R370	1-216-295-00	METAL CHIP	0	5% 1/10W	
R374	1-216-073-00	METAL CHIP	10K	5% 1/10W	
		< SWITCH >			
S351	1-554-303-21	SWITCH, TACTILE (DECK A: □)			
S352	1-554-303-21	SWITCH, TACTILE (DECK A: ▷)			
S353	1-554-303-21	SWITCH, TACTILE (DECK A: ◁)			
S354	1-554-303-21	SWITCH, TACTILE (DECK B: ◀◀)			
S355	1-554-303-21	SWITCH, TACTILE (DECK B: ▶▶)			
S356	1-554-303-21	SWITCH, TACTILE (DECK B: REC ●)			
S357	1-554-303-21	SWITCH, TACTILE (HIGH SPEED)			
S358	1-554-303-21	SWITCH, TACTILE (NORMAL SPEED)			
S359	1-554-303-21	SWITCH, TACTILE (CD SYNCHRO)			
S360	1-554-303-21	SWITCH, TACTILE (DECK B: □)			
S361	1-554-303-21	SWITCH, TACTILE (DECK B: PHASE ▮▮)			
S362	1-554-303-21	SWITCH, TACTILE (DECK B: ▷)			
S363	1-554-303-21	SWITCH, TACTILE (DECK B: ◁)			
S364	1-554-303-21	SWITCH, TACTILE (DECK A: ◀◀)			
S365	1-554-303-21	SWITCH, TACTILE (DECK A: ▶▶)			
S371	1-570-850-21	SWITCH, SLIDE (DIRECTION)			
S372	1-692-319-11	SWITCH, SLIDE (DOLBY NR)			
**********					
*	1-645-181-11	TRANSFORMER BOARD			
		**********			
		< CAPACITOR >			
C957	1-136-165-00	FILM	0.1uF	5% 50V	
C958	1-136-165-00	FILM	0.1uF	5% 50V	
		< CONNECTOR >			
* CN961	1-564-321-00	PIN, CONNECTOR 2P (EXCEPT E, EA, TR)			
CN961	1-568-106-11	PIN, CONNECTOR 4P (E, EA, TR)			
		< FUSE >			
⚠F953	1-532-783-21	FUSE, MICRO (SECONDARY) 125V 5A (US, Canadian)			
⚠F953	1-532-846-11	LINK, IC 5A (EXCEPT US, Canadian)			
⚠F954	1-532-783-21	FUSE, MICRO (SECONDARY) 125V 5A (US, Canadian)			
⚠F954	1-532-846-11	LINK, IC 5A (EXCEPT US, Canadian)			
**********					

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
16	1-575-903-11	WIRE, FLAT TYPE (15 CORE)	
18	1-696-727-11	WIRE (FLAT TYPE) (15 CORE)	
19	1-575-731-11	WIRE, FLAT TYPE (7 CORE)	
20	1-690-588-31	WIRE, FLAT TYPE (9 CORE)	
56	1-541-860-41	MOTOR, DC FAN (US, Canadian)	
118	1-696-731-11	WIRE (FLAT TYPE) (15 CORE)	
119	1-696-725-11	WIRE (FLAT TYPE) (9 CORE)	
120	1-696-726-11	WIRE (FLAT TYPE) (13 CORE)	
167	1-638-983-11	PC BOARD, MOTOR FLEXIBLE	
⚠F901	1-532-078-00	FUSE T1A (AEP, UK, G, IT, AUS)	
⚠F901	1-532-744-11	FUSE, GLASS TUBE 125V/2.5A (US, Canadian)	
⚠F902	1-532-203-00	FUSE T2A (E, EA, TR)	
⚠F903	1-532-078-00	FUSE T1A (E, EA, TR)	
HP101	A-2003-868-F	BASE ASSY, HEAD (DECK A)	
HRPE101	A-2003-838-F	BASE ASSY, HEAD (DECK B)	
M101A	X-3363-501-1	MOTOR ASSY, REEL (DECK A)	
M101B	X-3363-501-1	MOTOR ASSY, REEL (DECK B)	
M102A	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK A)	
M102B	X-3359-417-1	MOTOR ASSY, CAPSTAN (DECK B)	
⚠T901	1-697-002-11	TRANSFORMER, POWER (E, EA, TR)	
⚠T901	1-697-003-11	TRANSFORMER, POWER (UK, AUS)	
⚠T901	1-697-004-11	TRANSFORMER, POWER (AEP, G, IT)	
⚠T901	1-697-005-11	TRANSFORMER, POWER (US, Canadian)	

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****
HARDWARE LIST
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#1	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
#2	7-682-547-04	SCREW +BVTT 3X6 (S)
#3	7-682-548-04	SCREW +BVTT 3X8 (S)
#4	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3
#5	7-685-645-79	SCREW +BTP 3X6 TYPE2 N-S
#6	7-621-255-15	SCREW +PTT 2X3 (S)
#7	7-627-556-08	SCREW +P 2.6X2.8
#8	7-621-775-00	SCREW +B 2.6X3
#9	7-621-770-67	SCREW +PTT 2.6X6 (S)

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9-957-398-11

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Audio Group

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